

CHEMOSPHERE

SUBJECT AND AUTHOR INDEX

Volume 19, 1989



Pergamon Press: Oxford New York
Beijing Frankfurt São Paulo Sydney Tokyo Toronto

EXECUTIVE EDITOR

Dr. T. Stephen, 8 Lewis Close, Risinghurst, Headington, Oxford OX3 8JD, U.K.

POLICY BOARD

Chemistry and Biochemistry

— Professor O. Hutzinger (Chairman) (Alfreda Hutzinger, Editorial Assistant), University of Bayreuth, Chair of Ecological Chemistry and Geochemistry, Postfach 10 12 51, D-8580 Bayreuth, G.F.R.

Biology

— Dr. J. Norris (Director of Group Research, Cadbury Schweppes Ltd.), The Lord Zuckerman Research Centre, The University, Whiteknights, P.O. Box 234, Reading RG6 2LA, U.K.

Ecotoxicology

— Prof. Dr. J. P. Giesy, Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI 48824-1222, U.S.A.

— Dr. W. Klein, Fraunhofer-Institut für Umweltchemie und Ökotoxikologie, Graftschaff/Hochsauerland, D-5948 Schmalfeld, G.F.R.

Pharmaceutical Organic Chemistry

— Dr. E. Takabatake, Satsunan University, Faculty of Pharmaceutical Sciences, 45-1 Nagaotoge-cho, Hirakata, Osaka 573-01, Japan

Toxicology

— Professor S. Safe, Veterinary Physiology and Pharmacology, Texas A and M University, College Station, TX 77843, U.S.A.

Atmospheric Chemistry and Air Pollution

— Dr. M. A. K. Khalil, Oregon Graduate Center, 19600 N.W. Von Neumann Drive, Beaverton, OR 97006, U.S.A.

PARTICIPATING BOARD

Chemistry and Biochemistry

Prof. Dr. K. Ballschmiter, Universität Ulm (MNH), Abteilung Analytische Chemie, Oberer Eselsberg 026, D-7900 Ulm, G.F.R.
Prof. T. F. Bidleman, Department of Chemistry and Marine Science Program, University of South Carolina, Columbia, SC 29208, U.S.A.

Dr. R. E. Clement, Ontario Ministry of the Environment, P.O. Box 213, Resources Road, Rexdale, Ontario, Canada M9W 2L1

Dr. P. E. Desrosiers, Research and Development Office, U.S. Environmental Protection Agency, 401 M-Street SW, Washington, DC 20460, U.S.A.

Dr. H. S. Fuhr, Bayer AG-Dormagen, Wersverwaltung GEB G-17, D-4047 Dormagen, G.F.R.

Dr. W. Giger, Swiss Federal Institute of Technology, Institute for Water Research and Water Pollution Control (EAWAG), CH-8600 Dübendorf, Switzerland

Prof. Dr. H. P. Hagenmaier, Department of Organic Chemistry, University of Tübingen, Auf der Morgenstelle 18, D-7400 Tübingen 1, G.F.R.

Dr. F. Hilleman, Monsanto Company, 800 N Lindbergh Boulevard, St Louis, MO 63167, U.S.A.

Prof. R. A. Hites, School of Public and Environmental Affairs, 400E 7th Street, Indiana University, Bloomington, IN 47405, U.S.A.

Prof. Dr. P. M. Huang, Saskatchewan Institute of Pedology, University of Saskatchewan, Saskatoon, Canada S7N 0W0
Mr. D. W. Kuehl, U.S. Environmental Protection Agency, Duluth, MN 55804, U.S.A.

Dr. R. C. Lao, Technology Development and Technical Services Branch, Environment Canada, River Road Environmental Technology Centre, Ottawa, Ontario, Canada K1A 0H3

Prof. D. Mackay, Department of Chemical Engineering, University of Toronto, Canada M5S 1A4

Dr. T. Mill, Stanford Research International, 333 Ravenswood Avenue, Menlo Park, CA 94025, U.S.A.

Prof. A. A. Moghissi, PO Box 7166, Alexandria, VA 22307, U.S.A.

Prof. Dr. H. Parlar, Gesamthochschule Kassel-Universität, Fachbereich 19 Biologie/Chemie, Heinrich-Plett-Strasse 40, D-3500 Kassel, G.F.R.

Prof. C. Rappe, University of Umeå, Institute of Environmental Chemistry, S-901 87 Umeå, Sweden

Dr. A. Sabljic, Institute Ruder Bošković, Department of Physical Chemistry, P.O.B. 1016, 41001 Zagreb, Croatia, Yugoslavia
Prof. Dr. H.-R. Schulten, Fachhochschule Fresenius, Department of Trace Analysis, Dambachtal 20, D-6200 Wiesbaden, G.F.R.

Dr. G. Sundström, Dow Sverige AB, P.O. Box 7038, S-103 86 Stockholm, Sweden

Prof. Dr. P. R. Wallinöfer, Bayerische Landesanstalt für Ernährung, Menzinger Strasse 54, D-8000 München, G.F.R.
Dr. V. Zitko, Program Head, Toxicology and Organic Contaminants Section, Marine Chemistry Division, Department of Fisheries and Oceans, Biological Station, St. Andrews, New Brunswick, Canada E0G 2X0

Biology

Dr. A. G. Catroux, Laboratoire de Microbiologie des Sols, 7 Rue Sully, 21 Dijon, France

Prof. G. D. Floodgate, Department of Marine Biology, Marine Science Laboratories, Menai Bridge, Anglesey LL59 5EH, U.K.

Prof. C. Nalewajko, Scarborough College, University of Toronto, West Hill, Ontario, Canada M1C 1A4

Ecotoxicology

Dr. S. M. Bartell, Environmental Sciences Division, Oak Ridge National Laboratory, Oak Ridge, TN 37830, U.S.A.

Dr. G. C. Butler, 4694 West 13th Avenue, Vancouver, British Columbia, Canada V6R 2V7

Prof. Dr. D. Calamari, Istituto di Entomologia, Facoltà di Agraria, Università degli Studi di Milano, Via Celoria 2, I-20133 Milano, Italy

Dr. R. T. Digulio, Duke University, School of Forestry and Environmental Studies, Durham, NC 27706, U.S.A.

Prof. Dr. W. Ernst, Alfred-Wegener-Institut für Polar- und Meeresforschung, Postfach 120161, Columbusstrasse, D-2850 Bremerhaven, G.F.R.

Prof. M. Goto, Institute of Ecotoxicology, Gakushuin University, Faculty of Science, 151 Merjiro, Toshima-Ku, Tokyo 171, Japan

Dr. P. C. Kearney, Natural Resources Institute, USDA, ARS, Office of Deputy Area Director, Building 001, Room 233, Bar-West, Beltsville, MD 20705, U.S.A.

Dr. S. J. Klaine, Memphis State University, Department of Biology, Memphis, TN 38152, U.S.A.

Dr. P. F. Landrum, Great Lakes Environmental Research Laboratory, NOAA/USDC, 2205 Commonwealth Boulevard, Ann Arbor, MI 48105-1593, U.S.A.

Prof. F. Schmidt-Bleek, OECD 2, Rue André-Pascal, F-75775 Paris Cedex 16, France

Dr. A. Spacie, Purdue University, Department of Forestry and Natural Resources, Forestry Building, West Lafayette, IN 47907, U.S.A.

Prof. R. Truhaut, Université de Paris, 4 Avenue Del Observatoire, Centre Faculté de Pharmacie, F-75006 Paris 6, France

Pharmaceutical Organic Chemistry

Dr. C. Marinak, The CCB/TROMPMED Central Office, 420/6 Rajvithi Road, Bangkok 4, Thailand

Dr. C. Mitoma, Stanford Research Institute, 333 Ravenswood Avenue, Menlo Park, CA 94025, U.S.A.

Toxicology, Pharmacokinetics and Epidemiology

Dr. R. Kociba, Dow Chemical Company, 1803 Building, Midland, MI 48674, U.S.A.

Prof. Dr. Y. Masuda, Daichi College of Pharmaceutical Sciences, 22-1 Tamagawa-Cho, Minami-Ku, Fukuoka 815, Japan

Dr. W. Mücke, c/o Bavarian State Ministry for State Development and Environmental Affairs and Ludwig-Maximilians-Universität München, Pernerstrasse 62, 8017 Ebersberg, G.F.R.

Prof. Dr. Ch. Schlatter, Institute of Toxicology, Federal Institute of Technology, University of Zurich, Schorenstrasse 16, CH-8603 Schwerzenbach, Switzerland

Prof. Dr. R. L. Suskind, Department of Environmental Health, Kettering Laboratory, University of Cincinnati, 3223 Eden Avenue, Cincinnati, OH 45267, U.S.A.

SUBJECT INDEX VOL. 19, 1989

Absorption

- dermal-, of chemicals in water, estimation by simple method, 1989
- spray absorbers and electrostatic precipitators, reduction of chlorinated furans and dioxins in flue gas, 367

Accumulation

- accumulation of semivolatile lipophilic micropollutants in thin butter layers, 1729
- of NOx to olefins in gas phase, 1939
- oil-based-, an indirect source of TCDF and TCDD production in Kraft bleach plants, 741

Adsorption

- and distribution of PCDF and PCDD in liver and adipose tissue of rats and Marmoset monkeys, comparative studies, 887
- constant to soil, parameters for predicting fate of organochlorine pesticides in environment, 1223
- of 2,3,7,8-TCDD by rats following parenteral application using various vehicles, 893
- of PCDDs and PCDFs by HRGC/HRMS on various capillary columns, 189
- studies of xylenes and ethylbenzenes on soil and humic acid by purge and trap gas chromatography, 1269

Aerosols

- thermal degradation-, generated by a chlorinated aromatic substitute to PCBs and PCB based fluid, comparative acute toxicity, 789

Ageing

- of human erythrocytes, effect on photosensitised haemolysis, 1345

Agriculture

- agricultural crops in Denmark, atmospheric input of Pb, 1787
- cumulative impact of incineration on-, a screening procedure for calculating population risk, 597

Ames test

- material extracted from respiratory masks worn at site of chemical warehouse fire, mutagenicity, 1068
- of airborne particulate matter from fire exposed and non fire exposed building ventilation filters, 1077

Animals see also Fish

- 6-methyl-1,3,8-tri-chloro-dibenzo-furan as 2,3,7,8-TCDD antagonist in C57BL/6 mice, 949
- 2,3,7,8-TCDD antagonist in male rats, characterisation of 6-methyl-1,3,8-trichlorodibenzofuran, induction of monooxygenases, 769
- avian embryo, 3,3',4,4'-tetrachlorobiphenyl, 3,3',4,4'-tetrachloroazobenzene, TCDD and congeners, effect on lymphoid development in bursa of fabricius and thymus, 817
- avian embryos, toxicity of coplanar PCBs, 765
- cattle, haematology during summer and winter, 2003
- female rat, 6-methyl-1,3,8-trichlorodibenzofuran and 2,3,7,8-TCDD as antiestrogens, mechanism of action, 785
- foraging farm-, as biomonitors for dioxin contamination, 481
- Hartley guinea pigs, Sprague-Dawley rats, *C57BL/6mice and golden Syrian hamsters, TCDD-induced reduction of body wt gain, 'E'D50' values for liver enlargement and thymic atrophy, 813
- hepatic retention of PCDFs and PCDDs in C57BL/6 and DBA/2 mice, 795
- interspecies differences in *in vitro* thermal inactivation of unliganded hepatic Ah receptor, 959
- invertebrates, water and sediment, content of heavy metals from rivers in eastern England, 1709
- mice and rats, acute toxicity of dibenzo-p-dioxin, 989

mice, Ah responsive and non-responsive strains,

- 2,3,7,8-TCDD comparative toxicologic study, 927
- pregnant mice, metabolic fate and tissue location of 3,3',4,4'-tetrachlorobiphenyl and 3,3',4,4',5-pentachlorobiphenyl, 809
- rat and mouse hepatic cytosol, Ah receptor, radioligand-dependent properties, 963
- rat tissue, distribution of PCDFs and PCDDs following various routes of administration, 907
- rats and Marmoset monkeys, adsorption and distribution of PCDF and PCDD in liver and adipose tissue, comparative studies, 887
- rats, 2,3,7,8-TCDD adsorption following parenteral application using various vehicles, 893
- rats, 2,3,7,8-TCDD tumour promotion, effect of exposure duration, administration schedule and diet, 779
- rats, 3 month toxicity study of TBDD, preliminary results in rats, 759
- rats, acute toxicity from TBDD, analytical procedures, 115
- rats, isolated rat renal tubules, gluconeogenic response to mersalyl, furosemide and ethacrynic acid diuretics, 1749
- rats, metabolism of 2,8-DCDF, 803
- rats, renal gluconeogenic response to mersalyl, furosemide and ethacrynic acid diuretics, glucose production early hours after administration, 1757
- rats, TCDD-treatment, hepatic storage of vitamin A in relation to paired feed restriction, 919
- seal blubber, PCDFs and PCDDs in, 551
- wildlife and food samples in N and S Vietnam, chlorinated dibenzofuran and dioxin levels, 493

Analysis

- analysing occupational monoterpane exposure, comparison of methods, 1483

- analytical procedures, acute rat toxicity resulting from pyrolysis products of ABS copolymer containing octabromo-diphenyl ether as flame retardant, 219
- and toxicity of respiratory filters and building ventilation filters after chemical warehouse fire, 1020
- background levels of PCBs in British soils, 1457
- confirmatory-, of polychlorinated biphenyl congeners, application of a dual column reaction chromatography system 143
- consumer's paper products, presence of PCDFs and PCDDs, 735
- fly ash containing planar aromatic compounds, detn of TeCBPs, 121
- HDDs and HDEs, testing and reporting requirements under toxic substances control act, 849
- HRGC/HRMS PCDFs and PCDDs in hazardous waste incinerator scrubber water, 83
- method, for PCDF/PCDD in whole blood samples of unexposed persons, 941
- methodology of Dow company for detn of selected CDD and CDF isomers in stack gas effluent matrices, 1179
- multivariate data-, of human milk, PCDFs and PCDDs distribution, 745
- of composited samples, to optimise monitoring of environmental toxins, 1551
- of PAH and PCB emissions during combustion of binder enhanced densified refuse derived fuel, 1375
- of volatile organic substances in forest atmosphere, 1399
- PCDD/PCDF in pulp and paper matrices, measurement, inter-laboratory comparison studies, 7
- PCDDs and PCDFs in human serum, comparison of 3 extraction procedures, 89
- PCDDs and PCDFs in sludge and water samples, 13
- PCDDs and PCDFs, detn in car exhaust, 669
- PCDF and PCDD in transformers and capacitors, interlaboratory comparison, 97
- PCDF and PCDD multimedia exposure analysis for Canadian population, detailed exposure estimation, 637
- PCDF/PCDD detn in ambient air, 521
- PCDFs and PCDDs detection in soil samples, 501
- PCDFs and PCDDs in fly dust from municipal incinerator, interlaboratory study, 75
- PCDFs and PCDDs in human milk by tandem hybrid mass spectrometry, 59
- PCDFs and PCDDs in human milk from UK, 985
- PCDFs and PCDDs, detn in irgasan DP 300, 167
- PCDFs and PCDDs, optimisation of a hybrid mass spectrometer method, 51
- target and non-target pollutants in aqueous leachates from hazardous waste site via ion chromatography-particle beam and inductively coupled plasma mass spectrometry, 1921
- TCDF/TCDD in pulp, paper base stocks and pulp industry solid wastes, optimisation of extraction procedure, 643
- tetra to octachlorodibenzodioxins, synthesis and characterisation of all compds, 233
- tetra to octachlorodibenzodioxins, by gas chromatography/Fourier transform IR spectroscopy, 249
- time dependent-, translocation of 2,3,7,8-TCDD, at Times beach, 429
- tumour promotion activity of 2,3,7,8-TCDD and relationship to cancer, 861
- Antibiotics**
cytotoxic, photoactive and antiviral activities of synthetic thiophenes and their acetylenic derivs, 1329
- Antimicrobial agents**
irgasan DP 300, detn of PCDDs and PCDFs, 167
- Aquatic organisms**
biomagnification by-, proposal, 1573
Daphnia magna acute toxicity of dispersed fresh and weathered crude oil and dispersants, 1199
freshwater organisms, comparative toxicity of solvent yellow 33 and solvent green 3 dyes, 1959
- Aquatic systems**
aquatic toxicity, prep of aqueous media for testing of oils and oil-based products, review of literature, 1635
Calcasieu estuary, halogenated organic compounds found in shrimps, 1367
dissolved organic carbon in overlying and interstitial water, effect on modelling environmental distribution on non polar organic compounds, 1473
ecosystems, OCDD, bioavailability, 969
Oswego river and lake Ontario, fugacity and phase distribution of mirex, 1289
Otonabee river-rice lake system, Canada, distribution of PCB congeners, 1321
rivers in eastern England, heavy metals in invertebrates, water and sediment, 1709
- rivers, N and S Vietnam, levels of 2,3,7,8-TCDD, in silt samples collected between 1985-86, 547
- seas round Sweden, dioxin uptake by cod and herring, 513
- stream levels of agricultural chemicals during Spring discharge event, 1129
- Ash see also Fly ash**
incinerator-, from landfills, modelling leaching and transport of 2,3,7,8-TCDD, 433
- Association**
coeffs of-, interaction of marine humic substances with PCBs, 1655
benzo(a)pyrene with dissolved organic matter, prediction of K(om) from structural and chemical properties of organic matter, 1911
modelling association of highly chlorinated biphenyls with marine humic substances, 1665
- Atmosphere**
airborne particulate matter, Ames test of mutagenic activity of gases from fire exposed and non fire exposed building ventilation filters, 1077
ambient air of metropolitan area, PCDF/PCDD in, 541
ambient air, comparison of high volume sampling techniques, for furans and dioxins, 1
ambient air, detn of PCDF/PCDD, 521
ambient air, detn of PCDFs and PCDDs from car exhausts, 669
atmospheric input of Pb to agricultural crops in Denmark, 1787
atmospheric precipitation, urban and rural locations, detn of furans and dioxins, 535
both ambient and workplace dioxin levels, comparison in and around modern resource recovery facilities with predicted ground level concentrations from stack emission testing with corresponding workplace health risks, 629
forest-, volatile organic substances, 1399
induced chromosomal aberrations induced by extracts of airborne particulate matter from fire exposed and non fire exposed building ventilation filters after chemical warehouse fire, 1088
- Automation**
potentiometric titrations, detn of dissociable acid groups of organic compounds extracted from soil, 1413
- Automobiles**
contributions to urban carbon monoxide, 1383
waste oil from-, PCDF and PCDD emission during combustion, 731

Bioaccumulation

2,3,7,8-TCDD-, iv lake trout, route of uptake, methodology for laboratory detn of relative contributions of water, sediment and food chain, 451
and uptake of 2,3,7,8-PCDD/PCDF in terrestrial plants, basic considerations, 467
laboratory soil-plant system, fate of 2,4,6-trichlorophenol-14C, 1715

Bioassay

E.L.S.-, interactive affects of PCDDs, PCDFs and PCBs assessed, 899
immunoassay, chlorinated dioxins in soils, 267
in vitro and in vivo-, basis for risk assessment of PCDDs and PCDFs, 609
in vitro-, development and validation for 2,3,7,8-TCDD equivalents, 853
modified erythrocyte rosette inhibition test, effect of PCBs on T-lymphocytes, 823
radioimmunoassay, detection of PCDDs in fish samples, 255

Bioavailability

of OCDD in aquatic ecosystems, 969
of PCDFs and PCDDs from bottom sediments and some associated biological effects in carp, 1009

Biodegradation

anaerobic biodegradability, screening of chemicals, 1527
and volatilisation, in comparison to HgCl₂ and pentachlorophenol-14C and their effect on microflora of soils, 1721
biodegradability, prevention of nitrification-caused erroneous data in closed bottle test, 1643
DDT-, by *Phanerochaete chrysosporium*, effect of culture parameters, 1387
microbial-, and physicochemical properties of organic chemicals, model-based relationship, 1677
phenol-, by activated sludge, lipophilic and electrophilic factors in inhibiting action of substituted phenols, 1623
tests for-, forecasting toxicity of chemicals, preliminary investigation of method, 3H-thymidine incorporation, 1447

Biotransformation

of hexachlorobenzene in *Mytilus edulis*, 1701

Biphenyls

3,3',4,4'-tetrachlorobiphenyl and 3,3',4,4',5-pentachlorobiphenyl, tissue location and metabolic fate in pregnant mice, 809

3,3',4,4'-tetrachlorobiphenyl, 3,3',4,4'-tetrachloroazobenzene, TCDD and congeners, effect on lymphoid development in bursa of fabricius and thymus of avian embryo, 817
chlorinated aromatic substitute to PCBs and a PCB based fluid produced thermal degradation aerosols, comparative acute toxicity, 789
coplanar PCBs, toxicity in avian embryos, 765
highly chlorinated biphenyls, modelling association with marine humic substances, 1665
PCB and PAH, analysis of emissions during combustion of binder enhanced densified refuse derived fuel, 1375
PCB congeners and hexachlorobenzene, distribution in different tissues of *limanda limanda* from north sea, 1309
PCB congeners as 2,3,7,8-TCDD antagonists, teratogenicity studies, 955
PCB congeners, coplanar, non-orthochlorine substituted, in Canadian, adipose tissue, breast milk and fatty foods, 1357
PCB congeners, distribution in sediments of Otonabee river-rice lake system, Canada, 1321
PCB congeners, persistence in capacitor workers and Yusho patients, 829
PCB fires, PCDFs and related compounds produced, 161
PCBs, background levels in British soils, 1457
PCBs, coplanar PCBs, PCDFs, PCDDs, and organochlorinated pesticides in human adipose tissue, Japan, 921
PCBs, effect on T-lymphocytes using a modified erythrocyte rosette inhibition test, 823
PCBs, interaction with marine humic substances, detn of association coeffs, 1655
PCBs, predicting Henry's law constants, 1503
PCBs, PCDFs and PCDDs, interactive effects as assessed by E.L.S. bioassay, 899
planar polychlorinated aromatic compounds in environment, structure analyses, 149
polychlorinated biphenyls, non-ortho and ortho substituted, gas chromatographic/mass spectrometric analysis of human serum using isotope-dilution mass spectrometry, 127
polychlorinated biphenyl congeners, application of a dual column reaction chromatography system for confirmatory analysis, 143
polychlorinated-, synthesis of tetrachloro-, pentachloro- and hexachlorodibenzofurans, 225

TeCBPs, detn in fly ash extracts containing planar aromatic compounds, 121

Bleaching

bleached pulp-based filters, use in brewing coffee, risk of potential dioxin exposure, 873
Kraft bleach plants, oil-based additives an indirect source of TCDF and TCDD production, 741
pulp and board products, occurrence of PCDFs and PCDDs, 721
spent bleach liquors after biological purification, contents of PCDFs, PCDDs, aromatic chlorohydrocarbons and toxaphene, 727

Bonds

C-C bridge bond, twisted angle in octachlorodibenzofuran, 177
distances and angles of 1- and 2-monochlorinated dibenzodioxins, 183
lengths and angles, structure analysis of chlorinated dibenzofurans and dioxins, 155

Calculations

quantum-mechanically calculated properties for development of quantitative structure-activity relationships, pKa values of phenols and aliphatic and aromatic carboxylic acids, 1595

Capacitors

and transformers, PCDF and PCDD analysis, interlaboratory comparison, 97

Carbohydrates

glucose production early hours after administration of mersalyl, furosemide and ethacrynic acid diuretics, renal gluconeogenic response, 1757

Carbon monoxide

urban-, contributions of automobiles and wood burning, 1383

Carboxylic acids

aliphatic and aromatic-, and phenols, pKa values, quantitative structure-activity relationships developed by quantum-mechanically calculated properties, 1595

Carcinogens

2,3,7,8-TCDD, uncertainty in qualitative risk assessment procedures, 623

Catalysts

activity of fly ash from MSW incinerator, effect of temp, carrier gas and precursor structure on PCDFs and PCDDs formation, 291

activity of fly ash produced in MSW incinerator, inhibition prevents PCDDs formation, 299
 activity of metallic constituents from MSW fly ash, formation and characterisation of chlorophenoxy substituted PCDDs, 579
 destruction by-, of PCDDs in flue gas, 361
 fly ash catalysed reactions of monochlorophenols, formation of polychlorobenzenes, PCDFs and PCDDs, 1629
 inhibited formation of PCDD from municipal incinerator fly ash, 1435
 surface catalysed formation of chlorinated dibenzofurans and dibenzodioxins during incineration, 277
 titanium dioxide, photocatalytic oxidation of nitrogenous ring compounds, formation of ammonium and nitrate ions, 1611
 tumour promotion activity, of 2,3,7,8-TCDD, analysis and relationship to cancer, 861

Chemicals

chemical warehouse fire, combustion gases, analysis and toxicity of respiratory filters and building ventilation filters, 1020
 chemical warehouse fire, diffusion of combustion gases and resulting local climatic situation, 1025
 dermal absorption in water, estimation by simple method, 1989
 nitrogenous ring compounds, photocatalytic oxidation over titanium dioxide, formation of ammonium and nitrate ions, 1611
 non polar organic compounds, modelling environmental distribution, effect of dissolved organic carbon in overlying and interstitial water of an aquatic system, 1473
 organic chemicals, model-based relationship between physicochemical properties and microbial degradation, 1677
 organic compounds extracted from soil, detn of dissociable acid groups by use of automated potentiometric titrations, 1413
 p-benzoquinone toxicity to bacteria and fungi, usefulness of agar-well diffusion method for assessment, 1693
 planar aromatic compounds in fly ash, detn of TeCBPs, 121
 screening of chemicals for anaerobic biodegradability, 1527
 toxicity of-, forecasting, preliminary investigation of method, 3H-thymidine incorporation, 1447
 volatile organic substances in forest atmosphere, 1399

Chromatography

a dual column reaction system for confirmatory analysis, application to polychlorinated biphenyl congeners, 143
 a GC/GC-MS study using a DB-225 column and selected decomp monitoring as quantitative tool for 2,3,7,8-TCDD, 171
 assessment of pollution, distribution of aliphatic, aromatic and chlorinated hydrocarbons in mussels from Galicia, 1489
 gas chromatographic/mass spectrometric analysis of human serum for non-ortho and ortho substituted polychlorinated biphenyls using isotope-dilution mass spectrometry, 127
 gas chromatography/Fourier transform IR spectroscopy, analysis of tetra to octachlorodibenzodioxins, 249
 gas chromatography/matrix isolation Fourier transform IR spectroscopy, structure/retention time correlations for 22 isomers of TCDD, 1513
 GLC analysis, formation of hepta congeners of octachlorodibenzofuran during decomp of the latter, 103
 HPLC capacity factors to describe non-specific toxicity, basis for development of QSAR's, 1113
 HPLC fractionation, use in clean up procedure for detn of 2,3,7,8-TCDD in fish tissue, 45
 ion chromatography-particle beam and inductively coupled plasma mass spectrometry, analysis of target and non-target pollutants in aqueous leachates from hazardous waste site, 1921
 purge and trap gas-, adsorption studies of xylenes and ethylbenzenes on humic acid and soil, 1269
 various capillary columns, adsorption of PCDFs and PCDDs by PCDDs by HRGC/HRMS, 189

Climate

haematology of cattle during summer and winter, 2003
 local situation resulting from diffusion of combustion gases from chemical warehouse fire, 1025

Combustion

Br-containing flame retardants, thermal formation of PBDFS and PBDDs, 305
 co-, of peat and wood chips with processed municipal waste, emission of PCDF/PCDD and related compounds, 353
 combustion gases from chemical warehouse fire, analysis and toxicity of respiratory filters and building ventilation filters, 1020

combustion gases, diffusion and local climatic situation resulting from chemical warehouse fire, 1025
 dioxins, control from MSW incinerator, 323
 hydrocarbon-, PCDDs and PCDFs formation in presence of HCl, 331
 laboratory tests involving PVC materials and fire accidents, detn of PCDFs and PCDDs, 423
 MSW-, PCDFs and PCDDs in MSW and emissions, chemometric approach, 751
 of binder enhanced densified refuse derived fuel, analysis for PCB and PAH during emissions, 1375
 of MSW in pilot plant, emission of PCDD and PCDF, preliminary results, 417
 of straw, coal and waste oil from automobiles, PCDF and PCDD emission, 731
 polyvinylchloride, source for formation of PCDDs/PCDFs, 387
 polyvinylchloride-, source for formation of PCDDs/PCDFs, 387
 products of-, of biosludge from pulp mill, 413
 rotary combustor, PCDF and PCDD formation, 393
 toluene-, and related processes, destruction and removal efficiency, 1233

Concentration

CDFs and CDDs-, in effluents and centrifuged particulates from pulp and paper mills, 649

Contamination

dioxin-, farm animals as biomonitors, 481
 dioxin-, U.S. chemical workers, serum levels of 2,3,7,8-TCDD, interim results, 835
 soil-, patterns of chlorinated organic compounds, looking for a source, 691
 sources of-, investigated, uptake of PCDDs and PCDFs by blue mussel, Osaka, 517

Cultures

culture media, survey of for *Trypanosoma cruzi*, amastigote forms from infected Vero cells, 1743

Decomposition

octachlorodibenzofuran-, GLC analysis, formation of hepta congeners, 103
 selected-, monitoring as quantitative tool for 2,3,7,8-TCDD, a GC/GC-MS study using a DB-225 column, 171

Degradation

dechlorination of perchlorinated aromatic compounds by graphite-potassium-intercalate, 1499
 PCDDs and related compounds produced from PCB fires, 161

- rate of-, of 1,1,1-trichloroethane in water by hydrolysis and dehydrochlorination, 1929
- toluene, destruction and removal efficiency, by combustion and and related processes, 1233
- Dehalogenation**
- dechlorination of PCDF and PCDD sorbed on activated carbon using KPEG reagent, 573
- dechlorination of perchlorinated aromatic compds by graphite-potassium-intercalate, 1499
- dehydrochlorination and hydrolysis of 1,1,1-trichloroethane in water, rate of degradation, 1929
- Desorption**
- sediment to water partition coeff for 2,3,7,8-TCDD, Koc for lake Ontario sediment, 439
- Detection**
- PCDD by radioimmunoassay in fish samples, 255
- Detoxification**
- biological purification of spent bleach liquors, contents of PCDFs, PCDDs, aromatic chlorohydrocarbons and toxaphene, 727
- dechlorination of PCDF and PCDD sorbed on activated carbon using KPEG reagent, 573
- dechlorination of perchlorinated aromatic compds by graphite-potassium-intercalate, 1499
- photolytic/thermal destruction of dioxins and other toxic chloroaromatic compds, 685
- Diffraction**
- structure analysis of chlorinated dibenzofurans and dioxins, 155
- Diffusion**
- diffusion of combustion gases and local climatic situation resulting from chemical warehouse fire, 1025
- Dioxins**
- 1- and 2-monochlorinated dibenzodioxins, structures, 183
- 2,3,7,8-TBDD, 3 month toxicity study, preliminary results in rats, 759
- 2,3,7,8-TCDD and 2,3,7,8-TCDF in human adipose tissue from hospitalised persons in N. and S. Vietnam, 1884-88, 1001
- 2,3,7,8-TCDD and 6-methyl-1,3,8-trichlorodibenzofuran as antiestrogens in female rat, mechanism of action, 785
- 2,3,7,8-TCDD and fat, effects of long term freezing on extraction, 1017
- 2,3,7,8-TCDD antagonist in male rats, characterisation of 6-methyl-1,3,8-trichlorodibenzofuran, induction of monooxygenases, 769
- 2,3,7,8-TCDD antagonist, 6-methyl-1,3,8-trichlorodibenzofuran in *C57BL/6 mice, 949
- 2,3,7,8-TCDD antagonists, PCB congeners, teratogenicity studies, 955
- 2,3,7,8-TCDD bioaccumulation by lake trout, route of uptake, methodology for laboratory detn of relative contributions of water, sediment and food chain, 451
- 2,3,7,8-TCDD contaminated chemicals, progress of NIOSH cross-sectional medical study of occupationally exposed workers, 973
- 2,3,7,8-TCDD equivalents, *in vitro* bioassays, development and validation, 853
- 2,3,7,8-TCDD from incinerator ash from landfills, modelling leaching and transport, 433
- 2,3,7,8-TCDD in Ah responsive and nonresponsive strains of mice, comparative toxicologic study, 927
- 2,3,7,8-TCDD in fish tissue, detn, clean up procedure using HPLC fractionation, 45
- 2,3,7,8-TCDD tumour promotion in rats, effect of exposure duration, administration schedule and diet, 779
- 2,3,7,8-TCDD tumour promotion activity, analysis and relationship to cancer, 861
- 2,3,7,8-TCDD, a GC/GC-MS study using a DB-225 column and selected decomp monitoring as quantitative tool, 171
- 2,3,7,8-TCDD, adsorption in rats following parenteral application using various vehicles, 893
- 2,3,7,8-TCDD, effects on lipid synthesis and lipogenic enzymes in rats, 773
- 2,3,7,8-TCDD, *in vivo* and *in vitro* distribution among protein and lipoprotein fractions of whole blood, 135
- 2,3,7,8-TCDD, levels in silt samples collected between 1985-86 from rivers, N and S Vietnam, 547
- 2,3,7,8-TCDD, levels in serum of U.S. chemical workers exposed to dioxin contamination, 835
- 2,3,7,8-TCDD, sediment to water partition coeff, Koc for lake Ontario sediment, 439
- 2,3,7,8-TCDD, translocation, time dependent analysis at Times beach, 429
- 2,3,7,8-TCDD, uncertainty in qualitative carcinogenic risk assessment procedures, 623
- 2,3,7,8-TCDDs, photolysis, 681
- and furans in ambient air, comparison of high volume sampling techniques, 1
- and furans, detn in atmospheric precipitation, urban and rural locations, 535
- brominated/chlorinated dibenzodioxins and furans, synthesis of standards and detection in fly ash from municipal waste incinerators, 109
- CDD molecular geometry by Fourier transform IR spectroscopy, effect of longitudinal chlorine substituent, 1521
- CDDs and CDFs in matrices containing water, detn by novel extraction device, 27
- CDDs and CDFs, concentration in effluents and centrifuged particulates from pulp and paper mills, 649
- CDDs and CDFs, formation in paper pulp, effect of bleaching chemicals and lignin content, 661
- characterisation of chlorophenoxy substituted PCDDs formed by catalytic activity of metallic constituents of MSW fly ash, 579
- chlorinated biphenyls, dibenzofurans and dibenzodioxins, "de novo" synthesis fly-ash catalysed reaction of toluene with HCl, 1141
- chlorinated dibenzodioxins and dibenzofurans, surface catalysed formation during incineration, 277
- chlorinated dioxin and dibenzofuran levels in food and wildlife samples in N and S Vietnam, 493
- chlorinated dioxins and dibenzofurans, structure analysis by diffraction, 155
- chlorinated dioxins and furans in flue gas, reduction with spray absorbers and electrostatic precipitators, 367
- chlorinated dioxins, in soils immunoassay, 267
- dibenzo-p-dioxin, acute toxicity in mice and rats, 989
- dibenzodioxins and dibenzofurans, formation in homogeneous gas-phase reactions of phenols, 401
- dioxin contamination, foraging farm animals as biomonitors, 481
- dioxin exposure through inhalation of paper dust, potential risk, 869
- dioxin exposure through consumption of coffee brewed using bleached pulp-based filters, potential risk, 873
- dioxin levels in adipose tissues, hospitalised women and their clinical histories, 1984-1985, Vietnam, 933

- dioxin levels, both ambient and workplace, comparison in and around modern resource recovery facilities with predicted ground level concentrations from stack emission testing with corresponding workplace health risks, 629
- dioxin recovery from fly ash samples efficiency during extraction and clean up procedure, 67
- dioxin, in paper products, dermal exposure, assessment of potential health risks, 877
- dioxin, Swedish survey, 497
- dioxins and planar polychloroaromatic compounds in Baltic fish samples, 527
- dioxins and related compounds, emission from incineration of municipal solid waste with high content of organic Cl, 407
- dioxins in cod and herring from seas, Sweden, 513
- dioxins in work environment in steel mills, 699
- dioxins, control from MSW incinerator, 323
- HDDs and HDFS, testing and reporting requirements under toxic substances control act, 849
- OCDD, bioavailability in aquatic ecosystems, 969
- PBDDs and PBDFs, thermal formation from Br-containing flame retardants, 305
- PCDD and PCDF emission from combustion of straw, coal and waste oil from automobiles, 731
- PCDD and PCDF emissions from refuse incineration plants, assessment, 589
- PCDD and PCDF emissions from scrap metal melting processes at steel mill, 705
- PCDD and PCDF formation in rotary combustor, 393
- PCDD and PCDF in emission from combustion of MSW in pilot plant, preliminary results, 417
- PCDD and PCDF levels in serum, adipose and autopsy tissues of people eating dioxin contaminated beef and chicken eggs, 841
- PCDD and PCDF levels, human milk from several locations, 979
- PCDD and PCDF multimedia exposure analysis for Canadian population, detailed exposure estimation, 637
- PCDD and PCDF sorbed on activated carbon, dechlorination using KPEG reagent, 573
- PCDD and PCDF tissue levels and 2,3,7,8-TCDD toxic equivalents of potentially dioxin exposed patients in S. Vietnam, preliminary observations and clinical histories, 937
- PCDD and PCDF, analysis in transformers and capacitors, interlaboratory comparison, 97
- PCDD and PCDF, control of formation in fluidised bed incinerators, 345
- PCDD, inhibited formation on municipal incinerator fly ash by use of catalyst, 1435
- PCDD, PCDF and chlorinated aromatic hydrocarbons, burnout, industrial waste incinerator plants, residence-time behaviour, 565
- PCDD/PCDF and related compounds, emission from co-combustion of peat and wood chips with processed municipal waste, 353
- PCDD/PCDF emissions from refuse incinerator plants, causes and reduction, 309
- PCDD/PCDF in ambient air of metropolitan area, 541
- PCDD/PCDF in consumer paper products, Canadian perspective, 883
- PCDD/PCDF in pulp and paper matrices, measurement, interlaboratory comparison studies, 7
- PCDD/PCDF in whole blood samples of unexposed persons, 941
- PCDD/PCDF, detn in ambient air, 521
- PCDD/PCDF, indicator parameters, 337
- PCDD/PCDF, uptake and accumulation in terrestrial plants, basic considerations, 467
- PCDDs and PCDFs analyses, comparison of LRMS, HRMS and MS-MS, detection limits and response factors, 205
- PCDDs and PCDFs analysis, optimisation of a hybrid mass spectrometer method, 51
- PCDDs and PCDFs and environmental organic pollutants, sampling techniques and clean up procedures, 39
- PCDDs and PCDFs background level in UK vegetation, 531
- PCDDs and PCDFs detn in drinking water, clam tissue and fish tissue samples, GC-MS-MS versus GC-LRMS, enhanced sensitivity and selectivity, 201
- PCDDs and PCDFs dietary uptake from food, Canada, 507
- PCDDs and PCDFs in blue mussel in Osaka, contamination sources investigated, 517
- PCDDs and PCDFs in consumer's paper products, 735
- PCDDs and PCDFs in fly dust from municipal incinerator, interlaboratory study, 75
- PCDDs and PCDFs in hazardous waste incinerator scrubber water, HRGC/HRMS analysis, 83
- PCDDs and PCDFs in human milk, analysis by tandem hybrid mass spectrometry, 59
- PCDDs and PCDFs in MSW and combustion emissions, chemometric approach to MSW and emissions, 751
- PCDDs and PCDFs in seal blubber, 551
- PCDDs and PCDFs Nordic risk assessment, 603
- PCDDs and PCDFs, adsorption by HRGC/HRMS on various capillary columns, 189
- PCDDs and PCDFs, adsorption and distribution in liver and adipose tissue of rats and Marmoset monkeys, comparative studies, 887
- PCDDs and PCDFs, analysis in sludge and water samples, 13
- PCDDs and PCDFs, analysis in human serum, comparison of 3 extraction procedures, 89
- PCDDs and PCDFs, analysis in human milk from UK, 985
- PCDDs and PCDFs, bioavailability from bottom sediments and some associated biological effects in Carp, 1009
- PCDDs and PCDFs, composition, distribution and flux in settling particulate matter, a sediment trap study, 445
- PCDDs and PCDFs, *de novo* synthesis from carbonaceous particles in fly ash, 283
- PCDDs and PCDFs, detection in soil samples, 501
- PCDDs and PCDFs, detn in irgasan DP 300, 167
- PCDDs and PCDFs, detn in fire accidents and laboratory combustion tests involving PVC materials, 423
- PCDDs and PCDFs, detn in car exhaust, 669
- PCDDs and PCDFs, distribution in human milk, multivariate data analysis, 745
- PCDDs and PCDFs, distribution in rat tissue following various routes of administration, 907
- PCDDs and PCDFs, effect of temp, carrier gas and precursor structure on formation by catalytic activity of MSW incinerator fly ash, 291
- PCDDs and PCDFs, formation from hydrocarbon combustion, effect of HCl concentration, 331
- PCDDs and PCDFs, hepatic retention in $^{*}C57^{*}B1/6$ and DBA/2 mice, 795
- PCDDs and PCDFs, levels in human milk, WHO coordinated intercountry studies, 995
- PCDDs and PCDFs, occurrence in pulp and board products, 721
- PCDDs and PCDFs, octanol/water partition coeffs detn by stirring method, 263
- PCDDs and PCDFs, post furnace formation and progressive chlorination in municipal waste incinerator, 271
- PCDDs and PCDFs, risk assessment based on *in vitro* and *in vivo* bioassays, 609

- PCDDs and PCDFs, survey of 20 community water systems in New York state, 21
- PCDDs and related compds produced from PCB fires, 161
- PCDDs in fish samples, detection by radioimmunoassay, 255
- PCDDs in flue gas, catalytic destruction, 361
- PCDDs, formation by heating lindane in presence of H₂O₂, 1163
- PCDDs, formation in MSW incinerator prevented by inhibition of catalytic activity of fly ash produced, 299
- PCDDs, identification and quantitation in complicated environmental samples by GC-MS using C-13 labelled dioxin mixture, 213
- PCDDs, PCDFs and PCBs, interactive effects as assessed by E.L.S. bioassay, 899
- PCDDs, PCDFs and polychlorobenzenes, formation in fly ash catalysed reactions of monochlorophenols, 1629
- PCDDs, PCDFs and related compds in paper products, 655
- PCDDs, PCDFs, aromatic chlorohydrocarbons, and toxaphene in spent bleach liquors after biological purification, 727
- PCDDs, PCDFs, PCBs, coplanar PCBs and organochlorinated pesticides in human adipose tissue, Japan, 921
- PCDDs/PCDFs, formation, polyvinylchloride combustion as source, 387
- PCDDs/PCDFs, *in vivo* bound, partitioning among various compartments in whole blood, 135
- PCDDs/PCDFs, levels in cow's milk and soy bean derived infant formulas, 913
- PCDFs, chlorinated benzenes and naphthalenes in pyrolysis of chlordane, 717
- photolytic/thermal destruction of dioxins and other toxic chloroaromatic compds, 685
- planar polychlorinated aromatic compds in environment, structure analyses, 149
- predioxins, production by aqueous chlorination of organic compds, 675
- selected CDD and CDF isomers in stack gas effluent matrices, detn by analytical methodology of Dow company, 1179
- TBDD, acute toxicity in rats, analytical procedures, 115
- TCDD and congeners
- 3,3',4,4'-tetrachlorooxybenzene and
- 3,3',4,4'-tetrachlorobiphenyl, effect on lymphoid development in bursa of fabricius and thymus of avian embryo, 817
- TCDD, 22 isomers, structure/retention time correlations by gas chromatography/matrix isolation Fourier transform IR spectroscopy, 1513
- TCDD-induced reduction of body wt gain, 'E'D50' values for liver enlargement and thymic atrophy in Hartley guinea pigs, Sprague-Dawley rats, *C57BL/6 mice and golden Syrian hamsters, 813
- TCDD-induced vitamin A reduction, interaction with 6-methyl-1,3,8-trichlorodibenzofuran, 1005
- TCDD-treatment in rats, hepatic storage of vitamin A in relation to paired feed restriction, 919
- TCDD/TCDF in pulp, paper base stocks and pulp industry solid wastes, analysis, optimisation of extraction procedure, 643
- TCDDs and TCDFs produced in Kraft bleach plants, evidence that oil-based additives are an indirect source, 741
- tetra to octachlorodibenzodioxins, synthesis and characterisation of all compds, 233
- tetra to octachlorodibenzodioxins, analysis by gas chromatography/Fourier transform IR spectroscopy, 249
- Diseases see also Health hazards
- capacitor workers and Yusho patients, persistence of PCB congeners, 829
- hospitalised women and their clinical histories, dioxin levels in adipose tissues, 1984-1985, Vietnam, 933
- PCDD and PCDF measurements, environmental assessment at and around chemical waste treatment plant, 381
- tissue levels of PCDF and PCDD and 2,3,7,8-TCDD toxic equivalents of potentially dioxin exposed patient: in S.Vietnam, preliminary observations and clinical histories, 937
- tumour promotion activity, of 2,3,7,8-TCDD, analysis and relationship to cancer, 861
- Distribution
- and adsorption of PCDF and PCDD in liver and adipose tissue of rats and Marmoset monkeys, comparative studies, 887
- of aliphatic, aromatic and chlorinated hydrocarbons in mussels from Galicia, 1489
- of hexachlorobenzene and PCB congeners in different tissues of *limanda limanda* from north sea, 1309
- of PCDFs and PCDDs in rat tissue following various routes of administration, 907
- PCB congeners in sediments of Otonabee river-rice lake system, Canada, 1321
- Dose response
- gluconeogenic response of mersalyl, furosemide and ethacrynic acid diuretics to isolated rat renal tubules, 1749
- renal gluconeogenic response to mersalyl, furosemide and ethacrynic acid diuretics, glucose production early hours after administration, 1757
- Drugs
- mersalyl, furosemide and ethacrynic acid diuretics, renal gluconeogenic response, glucose production early hours after administration, 1757
- Dyes
- mersalyl, furosemide and ethacrynic acid diuretics, gluconeogenic response of isolated rat renal tubules, 1749
- solvent yellow 33 and solvent green 3 dyes, comparative toxicity to freshwater organisms, 1959
- Effluents
- and centrifuged particulates from pulp and paper mills, concentration of CDFs and CDDs, 649
- stack gas effluent matrices, selected substituted CDF and CDD isomers, detn by analytical methodology of Dow company, 1179
- Emissions
- both ambient and workplace dioxin levels, comparison in and around modern resource recovery facilities with predicted ground level concentrations from stack emission testing with corresponding workplace health risks, 629
- from combustion of binder enhanced densified refuse derived fuel, analysis for PCB and PAH, 1375
- from MSW combustion, presence of PCDFs and PCDDs, chemometric approach to MSW and emissions, 751
- PCDF and PCDD-, from combustion of straw, coal and waste oil from automobiles, 731
- PCDF and PCDD-, from refuse incineration plants, assessment, 589
- Energy
- energy charge and adenine nucleotide content of *Azotobacter chroococcum*, effect of nitrogen source, 1779
- from waste facility, pollution control, 373

Environment

- assessment at and around chemical waste treatment plant, PCDDs and PCDFs measurements, 381
- complicated samples from-, identification and quantitation of PCDDs by GC-MS using C-13 labelled dioxin mixture, 213
- modelling environmental distribution on non polar organic compounds, effect of dissolved organic carbon in overlying and interstitial water of an aquatic system, 1473
- modelling of-, by linear additivity principle, application to chemical behaviour in soil, 1187
- monitoring environmental toxins optimised by use of composited samples, 1551
- organic contaminants, relationship between octanol-water partition coefficient and aqueous solubility in terms of solvatochromic parameters, 1585
- organochlorine pesticides in-, parameters for predicting fate, adsorption constant to soil, 1223
- PCBs in-, effect on T-lymphocytes using a modified erythrocyte rosette inhibition test, 823
- PCDF and PCDD multimedia exposure analysis for Canadian population, detailed exposure estimation, 637
- PCDFs and PCDDs and organic pollutants, sampling techniques and clean up procedures, 39
- planar polychlorinated aromatic compounds in-, structure analyses, 149
- samples from-, fate of chlorinated cresols, 1421
- urban carbon monoxide, contributions from wood burning and automobiles, 1383
- work-, of steel mills, dioxins in, 699

Enzymes

- induction of monooxygenases, 2,3,7,8-TCDD antagonist in male rats, characterisation of 6-methyl-1,3,8-trichlorodibenzofuran, 769
- lipogenic-, and lipid synthesis in rats, effect of 2,3,7,8-TCDD, 773
- pseudocholinesterase and some whole blood parameters, relationship, 1467

Exhausts

- car-, detn of PCDFs and PCDDs, 669

Exposure

- duration of-, administration schedule and diet, 2,3,7,8-TCDD tumour promotion in rats, 779
- occupational monoterpene exposure, comparison of analytical methods, 1483

Extraction

- and clean up procedure, efficiency during dioxin recovery from samples of fly ash, 67
- and clean-up procedure for DDT and metabolites in breast milk, 1563
- comparison of 3 procedures, analysis for PCDFs and PCDDs in human serum, 89
- fly ash containing planar aromatic compounds, detn of TeCBPs, 121
- novel-, device, detn of CDFs and CDDs in matrices containing water, 27
- of 2,3,7,8-TCDD and fat, effects of long term freezing, 1017
- procedure of-, optimisation, TCDF/TCDD in pulp, paper base stocks and pulp industry solid wastes, 643
- supercritical fluid-, application for detn of polychlorinated organics in biological tissue samples, 33

Fatty acids

- and 2,3,7,8-TCDD, effects of long term freezing on extraction, 1017
- thin butter layers, accumulation of semivolatile lipophilic micropollutants, 1729

Filters

- building ventilation-, fire exposed and non fire exposed Ames test of mutagenic activity of airborne particulate matter, 1077
- extracts from respiratory and building ventilation-, toxicological investigation after chemical warehouse fire, 1066
- respiratory and building ventilation-, analysis and toxicity of combustion gases resulting from chemical warehouse fire, 1029

Fires

- accidents from-, and laboratory combustion tests involving PVC materials, detn of PCDFs and PCDDs, 423
- chemical warehouse-, discussion of toxicological investigation, 1098
- chemical warehouse-, general discussion and conclusions, 1101
- chemical warehouse-, diffusion of combustion gases and resulting local climatic situation, 1025
- combustion gases from chemical warehouse, analysis and toxicity of respiratory filters and building ventilation filters, 1020
- PCBs, PCDFs and related compounds produced, 161

Fish

- Baltic-, samples, dioxins and planar polychloroaromatic compounds, 527
- blue mussel, PCDFs and PCDDs uptake in Osaka, contamination sources investigated, 517

- carp, bioavailability of PCDFs and PCDDs from bottom sediments and some associated biological effects, 1009
- cod and herring, dioxin uptake from seas, Sweden, 513
- lake trout, bioaccumulation of 2,3,7,8-TCDD, route of uptake, methodology for laboratory detn of relative contributions of water, sediment and food chain, 451
- limanda limanda* from north sea, distribution of hexachlorobenzene and PCB congeners in different tissues, 1309
- mussels from Galicia, distribution of aliphatic, aromatic and chlorinated hydrocarbons, 1489
- Mytilus edulis*, hexachlorobenzene biotransformation, 1701
- shrimps from Calcasieu estuary, presence of halogenated organic compounds, 1367

Flame retardants

- Br-containing-, thermal formation of PBDFs and PBDDs, 305
- octabromo-diphenyl ether as flame retardant in ABS copolymer, analytical procedures in connection with acute rat toxicity resulting from pyrolysis products, 219

Flues

- gas from-, catalytic destruction of PCDDs, 361
- gas from-, reduction of chlorinated furans and dioxins with spray absorbers and electrostatic precipitators, 367

Fly ash see also Ash

- catalytic activity of metallic constituents from MSW incineration, formation and characterisation of chlorophenoxy substituted PCDDs, 579
- catalytic activity of-, produced in MSW incinerator, inhibition prevents PCDDs formation, 299
- dioxin recovery from samples, efficiency during extraction and clean up procedure, 67
- extracts of-, containing planar aromatic compounds, detn of TeCBPs, 121
- fly ash catalysed reactions of monochlorophenols, formation of polychlorobenzenes, PCDFs and PCDDs, 1629
- fly ash, carbonaceous particles in, *de novo* synthesis of organochlorine compounds, 283
- fly-ash catalysed reaction of toluene with HCl, "*de novo*" synthesis of chlorinated biphenyls, dibenzofurans and dibenzodioxins, 1141
- from MSW incinerator, catalytic activity, effect of temp, carrier gas and precursor structure on PCDFs and PCDDs formation, 291

from municipal waste incinerators, synthesis of standards and detection of dibenzo dioxins and furans, 109

identification and quantitation of PCDDs by GC-MS using C-13 labelled dioxin mixture, 213
municipal incinerator-, inhibited formation of PCDD by use of catalyst, 1435

Food

agricultural crops in Denmark, atmospheric input of Pb, 1787
and wildlife samples in N and S Vietnam, chlorinated dibenzofuran and dioxin levels 493
biomagnification by aquatic organisms, a proposal, 1573
chain, water and sediment, relative contributions for route of uptake of 2,3,7,8-TCDD by lake trout, methodology for laboratory detn, 451

consumption of coffee brewed using bleached pulp-based filters, risk of potential dioxin exposure, 873

contaminated beef and chicken eggs, resulting PCDF and PCDD levels in serum, adipose and autopsy tissues, 841

cow's milk and soy bean derived infant formulas, levels of PCDFs/PCDDs, 913

dietary uptake of PCDFs and PCDDs, Canada, 507

effect of diet, exposure duration and administration schedule of 2,3,7,8-TCDD tumour promotion in rats, 779

fatty-, adipose tissue and breast milk, coplanar, non-orthochlorine substituted PCB congeners in Canadians, 1357

laboratory soil-plant system, fate of 2,4,6-trichlorophenol-14C, 1715

Otonabee river-rice lake system, Canada, distribution of PCB congeners, 1321

rats, TCDD-treatment, hepatic storage of vitamin A in relation to paired feed restriction, 919

Freezing

long term-, effects on extraction of 2,3,7,8-TCDD and fat, 1017

Fuel

binder enhanced densified refuse derived-, analysis of PAH and PCB emissions during combustion, 1375

Fugacity

and phase distribution of mirex in Oswego river and lake Ontario, 1289

Fungi

and bacteria, usefulness of agar-well diffusion method for assessing chemical toxicity, 1693

Phanerochaete chrysosporium, DDT biodegradation, effect of culture parameters, 1387

Furans

2,3,7,8-TCDF and 2,3,7,8-TCDD in human adipose tissue from hospitalised persons in N. and S. Vietnam, 1884-88, 1001

2,8-DCDF, metabolism in rats, 803

6-methyl-1,3,8-trichlorodibenzofuran, interaction with TCDD-induced vitamin A reduction, 1005

6-methyl-1,3,8-trichlorodibenzofuran, characterisation as 2,3,7,8-TCDD antagonist in male rats, induction of monooxygenases, 769

6-methyl-1,3,8-trichlorodibenzofuran and 2,3,7,8-TCDD as antiestrogens in female rat, mechanism of action, 785

6-methyl-1,3,8-trichlorodibenzofuran as 2,3,7,8-TCDD antagonist in *C57BL/6 mice, 949

and dioxins in ambient air, comparison of high volume sampling techniques, 1
and dioxins, detn in atmospheric precipitation, urban and rural locations, 535

brominated/chlorinated dibenzo dioxins and furans, synthesis of standards and detection in fly ash from municipal waste incinerators, 109

PCDFs and CDDs in matrices containing water detn by novel extraction device, 27

PCDFs and CDDs, concentration in effluents and centrifuged particulates from pulp and paper mills, 649

PCDFs and CDDs, formation in paper pulp, effect of bleaching chemicals and lignin content, 661

chlorinated biphenyls, dibenzofurans and dibenzodioxins, "de novo" synthesis fly-ash catalysed reaction of toluene with HCl, 1141

chlorinated dibenzofurans and dioxins, structure analysis by diffraction, 155

chlorinated dibenzofurans and dibenzodioxins, surface catalysed formation during incineration, 277

chlorinated dibenzofuran and dioxin levels in food and wildlife samples in N and S Vietnam, 493

chlorinated furans and dioxins in flue gas, reduction with spray absorbers and electrostatic precipitators, 367

dibenzofurans and dibenzodioxins, formation in homogeneous gas-phase reactions of phenols, 401
octachlorodibenzofuran, decomp and formation of hepta congeners during GLC analysis, 103

octachlorodibenzofuran, twisted angle of C-C bridge bond, 177
PBDFs and PBDDs, thermal formation from Br-containing flame retardants, 305

PCDD/PCDF in pulp and paper matrices, measurement, inter-laboratory comparison studies, 7

PCDF and PCDD emission from combustion of straw, coal and waste oil from automobiles, 731

PCDF and PCDD emissions from refuse incineration plants, assessment, 589

PCDF and PCDD emissions from scrap metal melting processes at steel mill, 705

PCDF and PCDD formation in rotary combustor, 393

PCDF and PCDD in emission from combustion of MSW in pilot plant, preliminary results, 417

PCDF and PCDD levels in serum, adipose and autopsy tissues of people eating dioxin contaminated beef and chicken eggs, 841

PCDF and PCDD levels, human milk from several locations, 979

PCDF and PCDD measurements, environmental assessment at and around chemical waste treatment plant, 381

PCDF and PCDD multimedia exposure analysis for Canadian population, detailed exposure estimation, 637

PCDF and PCDD sorbed on activated carbon, dechlorination using KPEG reagent, 573

PCDF and PCDD tissue levels and 2,3,7,8-TCDD toxic equivalents of potentially dioxin exposed patients in S. Vietnam, preliminary observations and clinical histories, 937

PCDF and PCDD, analysis in transformers and capacitors, interlaboratory comparison, 97

PCDF and PCDD, control of formation in fluidised bed incinerators, 345

PCDF, PCDD and chlorinated aromatic hydrocarbons, burnout, industrial waste incinerator plants, residence-time behaviour, 565

PCDF/PCDD and related compounds, emission from co-combustion of peat and wood chips with processed municipal waste, 353

PCDF/PCDD emissions from refuse incinerator plants, causes and reduction, 309

PCDF/PCDD in ambient air of metropolitan area, 541

PCDF/PCDD in consumer paper products, Canadian perspective, 883

PCDF/PCDD in whole blood samples of unexposed persons, 941
PCDF/PCDD, detn in ambient air, 521

- PCDF/PCDD, indicator parameters, 337
- PCDF/PCDD, uptake and accumulation in terrestrial plants, basic considerations, 467
- PCDFs and PCDDs analyses, comparison of LRMS, HRMS and MS-MS, detection limits and response factors, 205
- PCDFs and PCDDs analysis, optimisation of a hybrid mass spectrometer method, 51
- PCDFs and PCDDs and environmental organic pollutants, sampling techniques and clean up procedures, 39
- PCDFs and PCDDs background levels in UK vegetation, 531
- PCDFs and PCDDs detn in drinking water, clam tissue and fish tissue samples, GC-MS-MS versus GC-LRMS, enhanced sensitivity and selectivity, 201
- PCDFs and PCDDs dietary uptake from food, Canada, 507
- PCDFs and PCDDs in blue mussel in Osaka, contamination sources investigated, 517
- PCDFs and PCDDs in consumer's paper products, 735
- PCDFs and PCDDs in fly dust from municipal incinerator, interlaboratory study, 75
- PCDFs and PCDDs in hazardous waste incinerator scrubber water, HRGC/HRMS analysis, 83
- PCDFs and PCDDs in human milk, analysis by tandem hybrid mass spectrometry, 59
- PCDFs and PCDDs Nordic risk assessment, 603
- PCDFs and PCDDs, adsorption by HRGC/HRMS on various capillary columns, 189
- PCDFs and PCDDs, adsorption and distribution in liver and adipose tissue of rats and Marmoset monkeys, comparative studies, 887
- PCDFs and PCDDs, analysis in sludge and water samples, 13
- PCDFs and PCDDs, analysis, optimisation of hybrid-mass spectrometer method, 51
- PCDFs and PCDDs, analysis in human serum, comparison of 3 extraction procedures, 89
- PCDFs and PCDDs, analysis in human milk from UK, 985
- PCDFs and PCDDs, bioavailability from bottom sediments and some associated biological effects in Carp, 1009
- PCDFs and PCDDs, composition, distribution and flux in settling particulate matter, a sediment trap study, 445
- PCDFs and PCDDs, *de novo* synthesis from carbonaceous particles in fly ash, 283
- PCDFs and PCDDs, detection in soil samples, 501
- PCDFs and PCDDs, detn in ir-gasan DP 300, 167
- PCDFs and PCDDs, detn in fire accidents and laboratory combustion tests involving PVC materials, 423
- PCDFs and PCDDs, distribution in human milk, multivariate data analysis, 745
- PCDFs and PCDDs, distribution in rat tissue following various routes of administration, 907
- PCDFs and PCDDs, effect of temp, carrier gas and precursor structure on formation by catalytic activity of MSW incinerator fly ash, 291
- PCDFs and PCDDs, formation from hydrocarbon combustion, effect of HCl concentration, 331
- PCDFs and PCDDs, hepatic retention in *C57*B1/6 and DBA/2 mice, 795
- PCDFs and PCDDs, levels in human milk, WHO coordinated intercountry studies, 995
- PCDFs and PCDDs, occurrence in pulp and board products, 721
- PCDFs and PCDDs, octanol/water partition coeffs detn by stirring method, 263
- PCDFs and PCDDs, post furnace formation and progressive chlorination in municipal waste incinerator, 271
- PCDFs and PCDDs, risk assessment based on *in vitro* and *in vivo* bioassays, 609
- PCDFs and PCDDs, survey of 20 community water systems in New York state, 21
- PCDFs and related compds produced from PCB fires, 161
- PCDFs, PCDDs and PCBs, interactive effects as assessed by E.L.S. bioassay, 899
- PCDFs, PCDDs and polychlorobenzenes, formation in fly ash catalysed reactions of monochlorophenols, 1629
- PCDFs, PCDDs and related compds in paper products, 655
- PCDFs, PCDDs, aromatic chloro-hydrocarbons, and toxaphene in spent bleach liquors after biological purification, 727
- PCDFs, PCDDs, PCBs, coplanar PCBs and organochlorinated pesticides in human adipose tissue, Japan, 921
- PCDFs/PCDDs, formation, polyvinylchloride combustion as source, 387
- PCDFs/PCDDs, *in vivo* bound in whole blood, partitioning among various compartments, 135
- PCDFs/PCDDs, levels in cow's milk and soy bean derived infant formulas, 913
- PCDs and PCDDs in MSW and combustion emissions, chemometric approach to MSW and emissions, 751
- PCDs and PCDDs in seal blubber, 551
- planar polychlorinated aromatic compds in environment, structure analyses, 149
- selected substituted CDD and CDF isomers in stack gas effluent matrices, detn by analytical methodology of Dow company, 1179
- TCDF/TCDD in pulp, paper base stocks and pulp industry solid wastes, analysis, optimisation of extraction procedure, 643
- TCDFs and TCDDs produced in Kraft bleach plants, evidence that oil-based additives are an indirect source, 741
- tetrachloro-, pentachloro- and hexachlorodibenzofurans, synthesis from polychlorinated biphenyls, 225
- Furnaces**
- metallurgical industries, effect of processing on production and emission of chlorinated aromatics, 711
- scrap metal melting processes at steel mill, PCDF and PCDD emissions, 705
- Genetics**
- chromosomal aberrations induced by extracts of airborne particulate matter from fire exposed and non fire exposed building ventilation filters after chemical warehouse fire, 1088
- teratogenicity studies, PCB congeners as 2,3,7,8-TCDD antagonists, 955
- Genotypes**
- Ah responsive and nonresponsive strains of mice, comparative toxicologic study of 2,3,7,8-TCDD, 927
- Geometry**
- CDD molecular geometry by Fourier transform IR spectroscopy, effect of longitudinal chlorine substituent, 1521
- Hematology**
- of cattle during summer and winter, 2003
- Halogenated ompounds**
- 1,1,1-trichloroethane in water, rate of degradation by hydrolysis and dehydrochlorination, 1929
- aliphatic, aromatic and chlorinated hydrocarbons, distribution in mussels from Galicia, 1489

chlorinated aromatic methylsulphones and sulfoxides, occurrence and distribution in biological samples, 487

chlorinated aromatic substituted PCBs and a PCB based fluid, produced thermal degradation aerosols, comparative acute toxicity, 789

chlorinated aromatics from metallurgical industries, effect of processing on production and emissions, 711

chlorinated aromatics, production in post-combustion zone and bioler of SAKAB incinerator, 317

chlorinated benzenes, naphthalenes and dibenzofurans in pyrolysis of chlordane, 717

chlorinated biphenyls, dibenzofurans and dibenzodioxins, "de novo" synthesis, fly-ash catalysed reaction of toluene with HCl, 1141

chlorinated cresols, fate in environmental samples, 1421

chlorinated hydrocarbon concentrations in fresh water, potential underestimation, 1277

chlorinated organic compds, soil contamination patterns, looking for a source, 691

chlorocymenes, ¹H NMR, ¹³C NMR and mass spectra, 1349

dioxins and planar polychloroaromatic compds in Baltic fish samples, 527

EPA mobile incinerator, trial burn results and future activities, 561

halogenated organic compds found in shrimps from Calcasieu estuary, 1367

HCl concentration, effect on hydrocarbon combustion and formation of PCDDs and PCDFs, 331

hexa- and heptachloronaphthalenes, synthesis, 195

hexachlorobenzene and PCB congeners, distribution in different tissues of *limanda limanda* from north sea, 1309

hexachlorobenzene, biotransformation in *Mytilus edulis*, 1701

organochlorine compds, de novo synthesis from carbonaceous particles in fly ash, 283

p-cymenes, structure verification by high field NMR and IR spectroscopies, 1243

PCDF, PCDD and chlorinated aromatic hydrocarbons, burnout, industrial waste incinerator plants, residence-time behaviour, 565

perchlorinated aromatic compds, dechlorination by graphite-potassium-intercalate, 1499

planar polychlorinated aromatic compds in environment, structure analyses, 149

polychlorinated organics, detn in biological tissue samples, application of supercritical fluid extraction, 33

polychlorobenzenes, PCDFs and PCDDs, formation in fly ash catalysed reactions of monochlorophenols, 1629

polyvinylchloride combustion, source for formation of PCDDs/PCDFs, 387

TCDD and congeners 3,3',4,4'-tetrachloroazoxybenzene and 3,3',4,4'-tetrachlorobiphenyl, effect on lymphoid development in bursa of fabricius and thymus of avian embryo, 817

Halogenation

aqueous chlorination of organic compds, production of polychlorinated phenoxyphenols, 675

progressive chlorination and post furnace formation of PCDFs and PCDDs in municipal waste incinerator, 271

Halogens

chlorine bleaching of pulp and board products, occurrence of PCDFs and PCDDs, 721

incineration of municipal solid waste with high content of organic Cl, emission of dioxins and related compds, 407

longitudinal chlorine substituent, effect on geometry of CDD determined by Fourier transform IR spectroscopy, 1521

Health hazards

a screening procedure for calculating population risk, cumulative impact of incineration on agriculture, 597

acceptable daily intake of PCDD and PCDF from refuse incineration plants, 589

both ambient and workplace dioxin levels, comparison in and around modern resource recovery facilities with predicted ground level concentrations from stack emission testing with corresponding workplace health risks, 629

PCDF and PCDD multimedia exposure analysis for Canadian population, detailed exposure estimation, 637

Herbicides

chlorinated cresols, fate in environmental samples, 1421

phytotoxic pyridine deriv, photodependent generation of reactive oxygen species, 1427

stream levels of-, during Spring discharge event, 1129

Hormones

antiestrogens, mechanism of action of 6-methyl-1,3,8-trichlorodibenzofuran and 2,3,7,8-TCDD in female rat, 785

Humic substances

humic acid and soil, adsorption studies of xylenes and ethylbenzenes by purge and trap gas chromatography, 1269

marine-, interaction with PCBs, detn of association coeffs, 1655

marine-, modelling association with highly chlorinated biphenyls, 1665

Hydrocarbons

addition of NOx in gas phase, 1939

aliphatic, aromatic and chlorinated hydrocarbons, distribution in mussels from Galicia, 1489

aromatic chlorohydrocarbons, toxaphene, PCDDs and PCDFs in spent bleach liquors after biological purification, 727

benzo(a)pyrene, association with dissolved organic matter, prediction of K(om) from structural and chemical properties of organic matter, 1911

chlorinated benzenes, naphthalenes and dibenzofurans in pyrolysis of chlorane, 717

chlorinated-, concentrations in fresh water, potential underestimation, 1277

chlorocymenes, ¹H NMR, ¹³C NMR and mass spectra, 1349

combustion of-, PCDDs and PCDFs formation in presence of HCl, 331

combustion products, biosludge from pulp mill, 413

fluoranthene and nitrofluoranthene, formation by gamma radiolysis, 1153

hexachlorobenzene and PCB congeners, distribution in different tissues of *limanda limanda* from north sea, 1309

p-cymenes, structure verification by high field NMR and IR spectroscopies, 1243

PAH and PCB, analysis of emissions during combustion of binder enhanced densified refuse derived fuel, 1375

toluene combustion and related processes, destruction and removal efficiency, 1233

toluene, fly-ash catalysed reaction with HCl, "de novo" synthesis of chlorinated biphenyls, dibenzofurans and dibenzodioxins, 1141

xylenes and ethylbenzenes, adsorption studies on soil and humic acid by purge and trap gas chromatography, 1269

Hydrolysis

and dehydrochlorination of 1,1,1-trichloroethane in water, rate of degradation, 1929

Incinerators

ash from-, from landfills, modelling leaching and transport of 2,3,7,8-TCDD, 433

- cumulative impact of incineration on agriculture, a screening procedure for calculating population risk, 597
- EPA mobile-, solving hazardous waste problems, with 557
- EPA mobile-, trial burn results and future activities, 561
- flue gas from-, reduction of chlorinated furans and dioxins with spray absorbers and electrostatic precipitators, 367
- fluidised bed-, control of PCDD and PCDF formation, 345
- industrial waste-, plants, residence-time behaviour and burnout of PCDD, PCDF and chlorinated aromatic hydrocarbons, 565
- MSW pilot-, emission of PCDD and PCDF from combustion, preliminary results, 417
- MSW-, control of dioxins, 323
- MSW-, formation of PCDDs prevented by inhibition of catalytic activity of fly ash produced, 299
- municipal waste-, progressive chlorination and post furnace formation of PCDFs and PCDDs, 271
- municipal waste-, synthesis of standards and detection of dibenzo dioxins and furans in fly ash, 109
- municipal-, fly ash, inhibited formation of PCDD by use of catalyst, 1435
- municipal-, PCDFs and PCDDs in fly dust, interlaboratory study, 75
- of municipal solid waste with high content of organic Cl, emission of dioxins and related compds, 407
- PCDDs in flue gas, catalytic destruction, 361
- refuse ashes, element immobilisation by solidification in glass, ceramic or cement, 1951
- refuse plants, causes and reduction of PCDD/PCDF emissions, 309
- refuse-, plants, assessment of PCDD and PCDF emissions, 589
- SAKAB-, production of chlorinated aromatics in post-combustion zone and boiler, 317
- scrubber water from-, PCDFs and PCDDs in hazardous waste, HRGC/HRMS analysis, 83
- surface catalysed formation during-, chlorinated dibenzofurans and dibenzodioxins, 277
- Indicator parameters**
for PCDF/PCDD, 337
- Industry**
2,3,7,8-TCDD contaminated chemicals, progress of NIOSH cross-sectional medical study of occupationally exposed workers, 973
- both ambient and workplace dioxin levels, comparison in and around modern resource recovery facilities with predicted ground level concentrations from stack emission testing with corresponding workplace health risks, 629
- capacitor workers and Yusho patients, persistence of PCB congeners, 829
- metallurgical-, effect of processing on production and emission of chlorinated aromatics, 711
- scrap metal melting processes at steel mill, PCDF and PCDD emissions, 705
- steel mills, dioxins in work environment, 699
- U.S. chemical workers exposed to dioxin contamination, serum levels of 2,3,7,8-TCDD, interim results, 835
- Ions**
ammonium and nitrate-, formation from photocatalytic oxidation of nitrogenous ring compds over titanium dioxide, 1611
- Insecticides**
DDT and metabolites in human breast milk, extraction and clean-up procedure, 1563
- DDT biodegradation by *Phanerochaete chrysosporium*, effect of culture parameters, 1387
- stream levels of-, during Spring discharge event, 1129
- Insects**
Drosophila melanogaster, somatic mutation and recombination test, effects of extracts of airborne particulate matter from fire exposed and non fire exposed building ventilation filters after chemical warehouse fire, 1094
- Isotopic labelling**
C-13 labelled dioxin mixture, identification and quantitation of PCDDs by GC-MS in complicated environmental samples, 213
- isotope-dilution mass spectrometry, use in gas chromatographic/mass spectrometric analysis of human serum, for non-ortho and ortho substituted polychlorinated biphenyls 127
- Landfills**
incinerator ash from-, modelling leaching and transport of 2,3,7,8-TCDD, 433
- Laws**
HDDs and HDFs, testing and reporting requirements under toxic substances control act, 849
- predicting Henry's law constants for PCBs, 1503
- Leaching**
and modelling and transport of 2,3,7,8-TCDD from incinerator ash from landfills, 433
- hazardous waste site, target and non-target pollutants in aqueous leachates, ion chromatography-particle beam and inductively coupled plasma mass spectrometry, 1921
- Lignins**
paper pulp, effect of bleaching chemicals and lignin content on formation of CDFs and CDDs, 661
- Linear additivity principle**
in environmental modelling, application to chemical behaviour in soil, 1187
- Lipids**
lipid synthesis and lipogenic enzymes in rats, effect of 2,3,7,8-TCDD, 773
- lipophilic, semivolatile micropollutants, accumulation in thin butter layers, 1729
- Mechanisms**
action of
6-methyl-1,3,8-trichlorodibenzofuran and 2,3,7,8-TCDD as antiestrogens in female rat, 785
- models for-, interactive effects of PCDFs, PCDDs and PCBs, as assessed by E.L.S. bioassay, 899
- PCDF/PCDD, uptake and accumulation in terrestrial plants, basic considerations, 467
- progressive chlorination and post furnace formation of PCDFs and PCDDs in municipal waste incinerator, 271
- surface catalysed formation of chlorinated dibenzofurans and dibenzodioxins during incineration, 277
- Metabolism**
metabolic fate and tissue location of 3,3',4,4'-tetrachlorobiphenyl and 3,3',4,4',5-pentachlorobiphenyl in pregnant mice, 809
- of 2,8-DCDF in rats, 803
- Metabolites**
DDT and metabolites in human breast milk, extraction and clean-up procedure, 1563
- Metals, non-metals and their compounds**
Cu, effect on *Lolium perenne* seedlings, 1971
- Cu, As and Cr, effect on *Lolium perenne* seedlings, study by use of experimental design and response surfaces, 1981
- evidence for Cd-binding protein in *Saccharomyces cerevisiae*, 1261
- heavy metals in water, sediment and invertebrates from rivers in eastern England, 1709

HgCl₂ and pen-tachlorophenol-14C, effect on microflora of soils in comparison to biodegradation and volatilisation, 1721
metallurgical industries, effect of processing on production and emission of chlorinated aromatics, 711
Pb, atmospheric input to agricultural crops in Denmark, 1787
scrap metal melting processes at steel mill, PCDF and PCDD emissions, 705
steel mills, dioxins in work environment, 699
titanium dioxide, photocatalytic oxidation of nitrogenous ring compds, formation of ammonium and nitrate ions, 1611
trace metal partitioning, effect of natural ligands, 1251

Microorganisms

Azotobacter chroococcum, adenine nucleotide content and energy charge, effect of nitrogen source, 1779
bacteria and fungi, usefulness of agar-well diffusion method for assessing chemical toxicity, 1693
microbial degradation and physicochemical properties of organic chemicals, model-based relationship, 1677
microflora of soils, effect of HgCl₂ and pen-tachlorophenol-14C in comparison to biodegradation and volatilisation, 1721
Saccharomyces cerevisiae, evidence for CD-binding protein, 1261
Trypanosoma cruzi, amastigote forms from infected Vero cells, survey of culture media, 1743

Migration

translocation of 23,7,8-TCDD, time dependent analysis at Times beach, 429

Models

dermal absorption of chemicals in water, estimation by simple method, 1989
environmental modelling by linear additivity principle, application to chemical behaviour in soil, 1187
model-based relationship between physicochemical properties and microbial degradation of organic chemicals, 1677
modelling association of highly chlorinated biphenyls with marine humic substances, 1665
modelling environmental distribution on non polar organic compds, effect of dissolved organic carbon in overlying and interstitial water of an aquatic system, 1473

modelling, transport and leaching of 2,3,7,8-TCDD from incinerator ash from landfills, 433
predicting Henry's law constants for PCBs, 1503

Mutagenicity

of material extracted from respiratory masks worn at site of chemical warehouse fire, Ames test, 1068

Mutation

somatic and recombination test in *Drosophila melanogaster*, effects of extracts of airborne particulate matter from fire exposed and non fire exposed building ventilation filters after chemical warehouse fire, 1094

Nitro compounds

nitrofluoranthene and fluoranthene formation by gamma radiolysis, 1153

Nitrogen fixation

nitrification-caused erroneous biodegradability data, prevention in closed bottle test, 1643
nitrogen source, effect on energy charge and adenine nucleotide content of *Azotobacter chroococcum*, 1779

Nitrogen oxides

NO_x, addition to olefins in gas phase, 1939

Nucleotides

adenine nucleotide content and energy charge of *Azotobacter chroococcum*, effect of nitrogen source, 1779

Oils

crude-, dispersed fresh and weathered, and dispersants, acute toxicity to *Daphnia magna*, 1199
and oil-based products in aquatic systems, prep of aqueous media for testing toxicity, review of literature, 1635

Olefins

olefins addition to NO_x in gas phase, 1939

Organic matter and compounds

dissolved-, association with benzo(a)pyrene, prediction of K(om) from structural and chemical properties of organic matter, 1911
contaminants in environment, relationship between octan-1-ol/water partition coeff and aqueous solubility in terms of solvatochromic parameters, 1585

Oxidation

photocatalytic-, of nitrogenous ring compds over titanium dioxide, formation of ammonium and nitrate ions, 1611

Paper

additives, oil-based, an indirect source of TCDF and TCDD production in Kraft bleach plants, 741
and pulp matrices, measurement of PCDD/PCDF, interlaboratory comparison studies, 7
bleached pulp-based filters, use in brewing coffee, risk of potential dioxin exposure, 873
consumer's paper products, presence of PCDFs and PCDDs, 735
dust from-, risks associated with potential dioxin exposure through inhalation, 869
products from-, PCDF/PCDD consumer risk, Canadian perspective, 883
products made from-, dermal exposure to dioxin, assessment of potential health risks, 877
pulp and board products, occurrence of PCDFs and PCDDs, 721
TCDF/TCDD in pulp, paper base stocks and pulp industry solid wastes, analysis, optimisation of extraction procedure, 643

Partition coeffs

and aqueous solubility of organic contaminants in terms of solvatochromic parameters, relationship between for octan-1-ol/water, 1585
non polar compds among sediment solids, interstitial water and dissolved organic carbon in overlying and interstitial waters of an aquatic system, 1473
partitioning of *in vivo* bound PCDDs/PCDFs in whole blood among various compartments, 135
PCDFs and PCDDs, octanol/water detn by stirring method, 263
sediment to water-, for 2,3,7,8-TCDD, Koc for lake Ontario sediment, 439
trace metal partitioning, effect of natural ligands, 1251

Peat

and wood chips, co-combustion with processed municipal waste, emission of PCDF/PCDD and related compds, 353

Peroxides

lindane, heating in presence of H₂O₂, formation of PCDDs, 1163

Pesticides

lindane, heating in presence of H₂O₂, formation of PCDDs, 1163
organochlorinated-, PCBs, coplanar PCBs, PCDFs and PCDDs in human adipose tissue, Japan, 921
organochlorine-, parameters for predicting fate in environment, adsorption constant to soil, 1223

stream levels of-, during Spring discharge event, 1129

Phenols

- 2,4,6-trichlorophenol-14C, fate in laboratory soil-plant system, 1715
- chlorinated cresols, fate in environmental samples, 1421
- combustion products, biosludge from pulp mill, 413
- homogeneous gas-phase reactions of-, formation of dibenzofurans and dibenzodioxins, 401
- monochlorophenols, fly ash catalyzed reactions, formation of polychlorobenzenes, PCDFs and PCDDs, 1629
- pentachlorophenol-14C and HgCl₂, effect on microflora of soils in comparison to biodegradation and volatilisation, 1721
- phenol biodegradation by activated sludge, lipophilic and electrophilic factors in inhibiting action of substituted phenols, 1623
- phenols and aliphatic and aromatic carboxylic acids, pKa values, quantitative structure-activity relationships developed by quantum-mechanically calculated properties, 1595
- polychlorinated phenoxyphenols, production by aqueous chlorination of organic compds, 675

Photochemistry

- ageing of human erythrocytes, effect on photosensitised haemolysis, 1345
- photoactive, antiviral and cytotoxic activities of synthetic thiophene and their acetylenic derivs, 1329
- photocatalytic oxidation of nitrogenous ring compds over titanium dioxide, formation of ammonium and nitrate ions, 1611
- photodependent generation of reactive oxygen species from phytotoxic pyridine deriv, 1427
- photolysis of 2,3,7,8-TCDDs, 681
- photolytic/thermal destruction of dioxins and other toxic chloroaromatic compds, 685

Physical properties

- effluents and centrifuged particulates from pulp and paper mills, concentration of CDFs and CDDs, 649
- paper products, presence of PCDDs, PCDFs and related compds, 655
- paper pulp, effect of bleaching chemicals and lignin content on formation of CDFs and CDDs, 661

Plants

- Lolium perenne* seedlings, effect of copper, 1971

- Lolium perenne* seedlings, effect of Cu, As and Cr, study by use of experimental design and response surfaces, 1981
- terrestrial-, PCDF/PCDD, uptake and accumulation, basic considerations, 467
- UK vegetation, background levels of PCDFs and PCDDs, 531

Pollutants

- 2,3,7,8-TCDD equivalents, *in vitro* bioassays, development and validation, 853
- contaminant content of sewage sludges, effect of sludge treatment, 1765
- organic-, environmental, sampling techniques and clean up procedures, 39
- semivolatile lipophilic micropollutants, accumulation in thin butter layers, 1729
- target and non-target-, analysis in aqueous leachates from hazardous waste site via ion chromatography-particle beam and inductively coupled plasma mass spectrometry, 1921

Pollution

- assessment of-, distribution of aliphatic, aromatic and chlorinated hydrocarbons in mussels from Galicia, 1489
- control of-, in energy from waste plant, 373

Polymers

- ABS copolymer containing octabromo-diphenyl ether as flame retardant, pyrolysis, analytical procedures in connection with acute rat toxicity, 219

Polystyrene

- PUC materials, laboratory combustion tests and fire accidents, detn of PCDFs and PCDDs, 423

Precipitators

- atmospheric-, urban and rural locations, detn of furans and dioxins, 535
- electrostatic-, and spray absorbers reduction of chlorinated furans and dioxins in flue gas, 367

Proteins

- evidence for Cd-binding protein in *Saccharomyces cerevisiae*, 1261

Pulp

- effluents and centrifuged particulates from pulp and paper mills, concentration of CDFs and CDDs, 649
- mill for-, biosludge combustion products, 413

Pyrolysis

- ABS copolymer containing octabromo-diphenyl ether as flame retardant, analytical procedures in connection with acute rat toxicity, 219
- homogeneous gas-phase reactions of phenols, formation of dibenzofurans and dibenzodioxins, 401
- of chlordane, production of PCDFs, chlorinated benzenes and naphthalenes, 717

Radioactivity

- gamma radiolysis, fluoranthene and nitrofluoranthene formation, 1153
- radioligand-dependent properties of Ah receptor, rat and mouse hepatic cytosol, 963

Receptors

- Ah receptor from rat and mouse hepatic cytosol, radioligand-dependent properties, 963
- unliganded hepatic Ah receptor, interspecies differences in *in vitro* thermal inactivation, 959

Reduction

- chlorinated furans and dioxins in flue gas from incinerators with spray absorbers and electrostatic precipitators, 367

Respiration

- filters, analysis and toxicity of combustion gases resulting from chemical warehouse fire, 1029
- masks worn at site of chemical warehouse fire, mutagenicity of material extracted, Ames test, 1068

Risk assessment

- 2,3,7,8-TCDD contaminated chemicals, progress of NIOSH cross-sectional medical study of occupationally exposed workers, 973
- a screening procedure for calculating population risk, cumulative impact of incineration on agriculture, 597
- consumer-, to PCDD/PCDF in paper products, Canadian perspective, 883
- of PCDDs and PCDFs based on *in vitro* and *in vivo* bioassays, 609
- PCDF and PCDD emissions from refuse incineration plants, 589
- PCDF and PCDD levels in serum, adipose and autopsy tissues of people eating dioxin contaminated beef and chicken eggs, 841
- PCDFs and PCDDs in Nordic area, 603
- PCDFs, PCDDs and related compounds in paper products, 655
- potential-, to health via dermal exposure to dioxin in paper products, 877
- risks associated with potential dioxin exposure through inhalation of paper dust, 869

risks associated with potential dioxin exposure through consumption of coffee brewed using bleached pulp-based filters, 873
uncertainty in quantitative carcinogenic-, procedures for 2,3,7,8-TCDD, 623

Sediments

and water and food chain, relative contributions for route of uptake of 2,3,7,8-TCDD by lake trout, methodology for laboratory detn, 451
and water and invertebrates, content of heavy metals from rivers in eastern England, 1709
bottom-, and some associated biological effects, bioavailability of PCDFs and PCDDs to Carp, 1009
levels of 2,3,7,8-TCDD, in samples collected between 1985-86 from rivers, N and S vietnam, 547
of Otonabee river-rice lake system, Canada, distribution of PCB congeners, 1321
partitioning non polar compds among sediment solids, interstitial water and dissolved organic carbon in overlying and interstitial waters of an aquatic system, 1473
to water partition coeff for 2,3,7,8-TCDD, Koc for lake Ontario sediment, 439
trap study for-, composition, distribution and flux of PCDFs and PCDDs in settling particulate matter, 445

Sewage

natural ligands in-, effect on trace metal partitioning, 1251
sludges, contaminant content, effect of sludge treatment, 1765

Sludge

activated sludge, phenol biodegradation, lipophilic and electrophilic factors in inhibiting action of substituted phenols, 1623
and water samples, analysis of PCDFs and PCDDs, 13
biosludge from pulp mill, combustion products, 413
TCDD/TCDD in pulp, paper base stocks and pulp industry solid wastes, optimisation of extraction procedures for analysis, 643

treatment, effect on organic contaminant content of sewage sludges, 1765

Soil

adsorption constant to-, parameters for predicting fate of organochlorine pesticides in environment, 1223

and humic acid, adsorption studies on xylenes and ethylbenzenes by purge and trap gas chromatography, 1269

British-, background levels of PCBs, 1457
chemical behaviour in-, detn by application of environmental modelling by linear additivity principle, 1187
chlorinated cresols, fate in environmental samples, 1421
chlorinated dioxins in-, immunoassay, 267
contamination patterns of chlorinated organic compds, looking for a source, 691
detection of PCDFs and PCDDs, 501
dioxin contamination, foraging farm animals as biomonitors, 481
extracted dissociable acid groups of organic compds, detn by use of automated potentiometric titrations, 1413
laboratory soil-plant system, fate of 2,4,6-trichlorophenol-14C, 1715
PCDF and PCDD measurements, environmental assessment at and around chemical waste treatment plant, 381
translocation of 2,3,7,8-TCDD, time dependent analysis at Times beach, 42
Solidification in glass, ceramic or cement, element immobilisation in refuse incinerator ashes, 1951

Solubility

partition coeff and aqueous solubility in terms of solvatochromic parameters, relationship between for octan-1-ol/water, 1585

Spectrometry

a GC/GC-MS study using a DB-225 column and selected decomp monitoring as quantitative tool for 2,3,7,8-TCDD, 171
comparison of LRMS, HRMS and MS-MS, detection limits and response factors, PCDFs and PCDDs analyses, 205
GC-MS, using C-13 labelled dioxin mixture, identification and quantitation of PCDDs by in complicated environmental samples, 213
GC-MS-MS versus GC-LRMS, enhanced sensitivity and selectivity for detn of PCDDs and PCDFs in drinking water, clam tissue and fish tissue samples, 201
HRGC/HRMS, levels of 2,3,7,8-TCDD, in silt samples collected between 1985-86 from rivers, N and S vietnam, 547
hybrid mass spectrometer method, optimisation for analysis of PCDFs and PCDDs, 51

ion chromatography-particle beam and inductively coupled plasma mass spectrometry, analysis of target and non-target pollutants in aqueous leachates from hazardous waste site, 1921

isotope-dilution mass spectrometry, use in gas chromatographic/mass spectrometry analysis of human serum, for non-ortho and ortho substituted polychlorinated biphenyls 127
tandem hybrid mass spectrometry, analysis for PCDFs and PCDDs in human milk, 59

Spectroscopy

¹H NMR, ¹³C NMR and mass spectra of chlorocymenes, 1349
chromatography/matrix isolation Fourier transform IR spectroscopy, structure/retention time correlations for 22 isomers of TCDD, 1513
Fourier transform IR spectroscopy, detn of molecular geometry of CDD, effect of longitudinal chlorine substituent, 1521
gas chromatography/Fourier transform IR spectroscopy, analysis of tetra to octachlorodibenzodioxins, 249
high field NMR and IR-, structure verification of *p*-cymenes, 1243

Structure-Activity relationship

development of QSAR's based on HPLC capacity factors to describe non-specific toxicity, 1113
quantitative structure-activity relationships, developed by quantum-mechanically calculated properties, pKa values of phenols and aliphatic and aromatic carboxylic acids, 1595

Structure analysis

1- and 2-monochlorinated dibenzodioxins, 183
of chlorinated dibenzofurans and dioxins, 155
planar polychlorinated aromatic compds in environment, 149
structure/retention time correlations for 22 isomers of TCDD by chromatography/matrix isolation Fourier transform IR spectroscopy, 1513

Straw

and coal and waste oil from automobiles, PCDF and PCDD emission during combustion, 731
longitudinal chlorine substituent, effect on geometry of CDD determined by Fourier transform IR spectroscopy, 1521

Sulphur compounds see also Thiophenes

chlorinated aromatic methylsulphones and sulfoxides, occurrence and distribution in biological samples, 487

Surveys

Swedish dioxin survey, 497

Techniques

agar-well diffusion method for assessment of chemical toxicity to bacteria and fungi, 1693
and clean up procedures, PCDFs and PCDDs and environmental organic pollutants, sampling techniques, 39
automated potentiometric titrations, detn of dissociable acid groups of organic compds extracted from soil, 1413
high volume sampling-, comparison for dioxins and furans in ambient air, 1
hybrid mass spectrometer method, optimisation for analysis of PCDFs and PCDDs, 51
novel extraction device, detn of CDFs and CDDs in matrices containing water, 27
preliminary investigation of method for forecasting toxicity of chemicals, 3H-thymidine incorporation, 1447
screening of chemicals for anaerobic biodegradability, 1527
stirring method, partition coeffs of PCDFs and PCDDs in octanol/water, 263
supercritical fluid extraction-, application for detn of polychlorinated organics in biological tissue samples, 33
tandem hybrid mass spectrometry, analysis for PCDFs and PCDDs in human milk, 59

Terpenes

occupational monoterpene exposure, comparison of analytical methods, 1483

Tests

anaerobic biodegradability, screening of chemicals, 1527
closed bottle test, prevention of nitrification-caused erroneous biodegradability data, 1643
testing toxicity of oils and oil-based products in aquatic systems, prep of aqueous media, review of literature, 1635

Thermal reactions

in vitro inactivation of unliganded hepatic Ah receptor, interspecies differences, 959
photolytic/thermal destruction of dioxins and other toxic chloroaromatic compds, 685
thermal degradation aerosols generated by chlorinated aromatic substitute to PCBs and a PCB based fluid, comparative acute toxicity, 789

Thiophenes

synthetic-, and their acetylenic derivs, photoactive, antiviral and cytotoxic activities, 1329

Tissue fluids, Body organs and cells

2,3,7,8-TBDD, 3 month toxicity study, preliminary results in rats, 759
adipose-, breast milk and fatty foods, coplanar, non-orthochlorine substituted PCB congeners in Canadians, 1357
adipose-, dioxin levels in hospitalised women and their clinical histories, 1984-1985, Vietnam, 933
avian embryo, lymphoid development in bursa of fabicius and thymus, effect of 3,3',4,4'-tetrachlorobiphenyl, 3,3',4,4'-tetrachloroazobenzene, TCDD and congeners, 817
avian embryos, toxicity of coplanar PCBs, 765
biological-, samples, detn of polychlorinated organics, application of supercritical fluid extraction, 33
blood, ageing of human erythrocytes, effect on photosensitised haemolysis, 1345
cow's milk and soy bean derived infant formulas, levels of PCDFs/PCDDs, 913
Cu, effect on *Lolium perenne* seedlings, 1971
dermal exposure to dioxin in paper products, potential risk to health, 877
different-, distribution of hexachlorobenzene and PCB congeners in *limanda limanda* from north sea, 1309
fish samples, detection of PCDD by radioimmunoassay, 255
fish-, detn of 2,3,7,8-TCDD by clean up procedure using HPLC fractionation, 45
fish-, identification and quantitation of PCDDs by GC-MS using C-13 labelled dioxin mixture, 213
hepatic retention of PCDFs and PCDDs in C57BL/6 and DBA/2 mice, 795
hepatic vitamin A storage in relation to paired feed restriction and to TCDD-treatment in rats, 919
human adipose-, 2,3,7,8-TCDF and 2,3,7,8-TCDD in hospitalised persons in N. and S. Vietnam, 1884-88, 1001
human adipose-, presence of PCDDs, PCDFs, PCBs, coplanar PCBs and organochlorinated pesticides in Japanese, 921
human breast milk, extraction and clean-up procedure for DDT and metabolites, 1563
human milk from several locations, PCDF and PCDD levels, 979
human milk from UK, analysis of PCDFs and PCDDs, 985
human milk, analysis for PCDFs and PCDD by tandem hybrid mass spectrometry, 59

human milk, PCDF and PCDD levels, WHO coordinated intercountry studies, 995
human milk, PCDFs and PCDDs distribution, multivariate data analysis, 745
human serum and adipose tissue, confirmatory analysis of polychlorinated biphenyl congeners, application of a dual column reaction chromatography system, 143
human serum, analysis for PCDDs and PCDFs, comparison of 3 extraction procedures, 89
human serum, gas chromatographic/mass spectrometric analysis for non-ortho and ortho substituted polychlorinated biphenyls using isotope-dilution mass spectrometry, 127
human-, whale and fish, chlorinated aromatic methylsulphones and sulphoxides, occurrence and distribution, 487
infected Vero cells, survey of culture media for amastigote forms of *Trypanosoma cruzi*, 1743
isolated rat renal tubules, gluconeogenic response to mersalyl, furosemide and ethacrynic acid diuretics, 1749
levels in-, of PCDF and PCDD and 2,3,7,8-TCDD toxic equivalents of potentially dioxin exposed patients in S. Vietnam, preliminary observations and clinical histories, 937
liver and adipose tissue of rats and Marmoset monkeys, PCDF and PCDD adsorption and distribution, comparative studies, 887
liver enlargement and thymic atrophy in Hartley guinea pigs, Sprague-Dawley rats, *C57BL/6mice and golden Syrian hamsters, *E'D50 values for TCDD-induced reduction of body wt gain, 813
liver, 2,3,7,8-TCDD tumour promotion in rats, effect of diet, exposure duration and administration schedule, 779
liver, lipogenic enzymes and lipid synthesis in rats, effect of 2,3,7,8-TCDD, 773
rat-, distribution of PCDFs and PCDDs following various routes of administration, 907
renal gluconeogenic response to mersalyl, furosemide and ethacrynic acid diuretics, glucose production early hours after administration, 1757
seal blubber, PCDs and PCDDs in, 551
serum levels of 2,3,7,8-TCDD in U.S. chemical workers exposed to dioxin contamination, interim results, 835
serum, adipose and autopsy tissue, PCDD and PCDF levels in people eating dioxin contaminated beef and chicken eggs, 841

subcutaneous and intramuscular application of 2,3,7,8-TCDD in rats using various vehicles, 893
 T-lymphocytes, effect of PCBs, using a modified erythrocyte rosette inhibition test, 823
 tissue location and metabolic fate of 3,3',4,4'-tetrachlorobiphenyl and 3,3',4,4',5-pentachlorobiphenyl, in pregnant mice, 809
 whole blood parameters and pseudocholinesterase, relationship, 1467
 whole blood samples, PCDF/PCDD of unexposed persons, 941
 whole blood, partitioning of *in vivo* bound PCDDs/PCDFs, among various compartments, 135

Toxaphene

and PCDFs, PCDDs and aromatic chlorohydrocarbons after biological purification of spent bleach liquors, 727

Toxicity

3 month study, preliminary results on 2,3,7,8-TBDD in rats, 759
 acute-, in rats, analytical procedures for TBDD, 115
 acute-, of dibenzo-*p*-dioxin to mice and rats, 989
 acute-, to *Daphnia magna* of dispersed fresh and weathered crude oil and dispersants, 1199
 and analysis of respiratory filters and building ventilation filters after chemical warehouse fire, 1020
 aquatic-, prep of aqueous media for testing of oils and oil-based products, review of literature, 1635
 chemical-, to bacteria and fungi, usefulness of agar-well diffusion method for assessment, 1693
 comparative acute-, of thermal degradation aerosols generated by a chlorinated aromatic substitute to PCBs and a PCB based fluid, 789
 comparative toxicologic study of 2,3,7,8-TCDD in Ah responsive and nonresponsive strains of mice, 927
 comparative-, of solvent yellow 33 and solvent green 3 dyes to freshwater organisms, 1959
 Cu, As and Cr, effect on *Lolium perenne* seedlings, study by use of experimental design and response surfaces, 1981
 cytotoxic, photoactive and antiviral activities of synthetic thiophenes and their acetylenic derivs, 1329
 discussion of toxicological investigation into chemical warehouse fire, 1098

investigation, extracts from respiratory and building ventilation filters after chemical warehouse fire, 1066
 non-specific-, described by HPLC capacity factors, of chemicals, forecasting, preliminary investigation of method, 3H-thymidine incorporation, 1447
 of coplanar PCBs in avian embryos, 765
 rat-, resulting from pyrolysis products of ABS copolymer containing octabromo-diphenyl ether as flame retardant, 219

Toxins

element immobilisation in refuse incinerator ashes, by solidification in glass, ceramic or cement, 1951
 HDDs and HDFs, testing and reporting requirements under toxic substances control act, 849
 mirex, fugacity and phase distribution in Oswego river and lake Ontario, 1289
 monitoring environmental toxins optimised by use of composited samples, 1551
 phytotoxic pyridine deriv, photodependent generation of reactive oxygen species, 1427

Transformers

and capacitors, PCDF and PCDD analysis, interlaboratory comparison, 97

Transport

and modelling and leaching of 2,3,7,8-TCDD from incinerator ash from landfills, 433
 of 2,3,7,8-TCDD, time dependent analysis at Times beach, 429

Ventilation

building ventilation filters analysis and toxicity of combustion gases resulting from chemical warehouse fire, 1029

Vitamins

vitamin A reduction, TCDD-induced, interaction with 6-methyl-1,3,8-trichlorodibenzofuran, 1005
 vitamin A, hepatic storage in relation to paired feed restriction and to TCDD-treatment in rats, 919

Volatile compounds

semivolatile lipophilic micropollutants, accumulation in thin butter layers, 1729
 volatile organic substances in forest atmosphere, 1399
 volatilisation and biodegradation in comparison to HgCl₂ and pentachlorophenol-14C and their effect on microflora of soils, 1721

Wastes

chemical treatment of-, environmental assessment at and around plant, PCDDs and PCDFs measurements, 381
 combustion of-, in pilot plant, emission of PCDF and PCDD, preliminary results, 417
 energy from waste facility, pollution control, 373
 EPA mobile incinerator, trial burn results and future activities, 561
 hazardous site, target and non-target pollutants in aqueous leachates, ion chromatography-particle beam and inductively coupled plasma mass spectrometry, 1921
 hazardous-, incinerator scrubber water, HRGC/HRMS analysis of PCDFs and PCDDs, 83
 hazardous-, problems, solving with EPA mobile incinerator, 557
 industrial-, incinerator plants, residence-time behaviour and burnout of PCDD, PCDF and chlorinated aromatic hydrocarbons, 565
 MSW combustion, chemometric approach to PCDDs and PCDFs in MSW and emissions, 751
 municipal solid-, with high content of organic Cl, incineration, emission of dioxins and related compds, 407
 processed municipal-, co-combustion with peat and wood chips, emission of PCDD/PCDF and related compds, 353
 refuse incinerator ashes, element immobilisation by solidification in glass, ceramic or cement, 1951
 refuse incinerator plants, causes and reduction of PCDF/PCDD emissions, 309
 SAKAB incinerator, production of chlorinated aromatics in post-combustion zone and boiler, 317
 straw, coal and waste oil from automobiles, PCDF and PCDD emission during combustions 731
 TCDF/TCDD in pulp, paper base stocks and pulp industry solid wastes, optimisation of extraction procedure, 643
 toxic chloro aromatic compds and dioxins, photolytic/thermal destruction, 685

Water
 and sediment and food chain, relative contributions for route of uptake of 2,3,7,8-TCDD by lake trout, methodology for laboratory detn, 451
 and sludge samples, analysis of PCDFs and PCDDs, 13
 dermal absorption of chemicals, estimation by simple method, 1989

dissolved organic matter, association with benzo(a)pyrene, prediction of $K_{(dom)}$ from structural and chemical properties of organic matter, 1911

fresh-, potential underestimation of concentrations of chlorinated hydrocarbons, 1277

matrices containing-, CDFs and CDDs, detn by novel extraction device, 27

natural ligands in sea-water, effect of trace metal partitioning, 1251

sediment to-, partition coeff for 2,3,7,8-TCDD, K_{oc} for lake Ontario sediment, 439

system in New York state, survey for PCDFs and PCDDs, 21

water, sediment and invertebrates, content of heavy metals from rivers in eastern England, 1709

Wood

burning of-, and automobiles, contributions to urban carbon monoxides, 1383

chips of-, and peat, co-combustion with processed municipal waste, emission of PCDF/PCDD and related compds, 353

Workplace

both ambient and workplace dioxin levels, comparison in and around modern resource recovery facilities with predicted ground level concentrations from stack emission testing with corresponding workplace health risks, 629

AUTHOR INDEX VOL. 19, 1989

- Abe Z see Rappe C. 1875
- Abenham L see Bonvalot Y. 623
- Abraham K see Brunner H. 907
- Abraham K. Krowke R. and Neubert D. Absorption of TCDD following parenteral application in rats using various vehicles 893
- Abraham K. Webercruss U. Wiesmüller T. Hagenmaier H. Krowke R. and Neubert D. Comparative studies on absorption and distribution in the liver and adipose tissue of PCDDs and PCDFs in rats and marmoset monkeys 887
- Addis G. Quertin J. Hilker D.R. Eadon G.A. Aldous K.M. Smith R.M. O'Keefe P.W. Valente H. Connor S. Jurusi J. House T.O. Nichols A.M. Kilpatrick M.P. Hardin E.D. Hayes D.A. Pellizzari E. Cooke W.M. DeRoos F.L. Gordon S.M. Miller M. Rappe C. and Kjeller L.-O. Interlaboratory comparison of PCDF and PCDD analysis in transformers and capacitors Dioxin 88 97
- Adrian P see Brunelot G. 1413
- Adroher F.J see Velasco J.R. 1743
- Afghan B see Sherry J. 255
- Ahlborg U.G see Flostrand S. 779, see Hakansson H. 919, see Hanberg A. 813, see Waern F. 1005
- Ahlborg U.G. Nordic risk assessment of PCDDs and PCDFs 603
- Aittola J.-P. Roivainen J. and Viinikainen S. The emission of PCDD/PCDF's and related compounds from co-combustion of RDF with peat and wood chips 353
- Akimoto Y see Takeshita R. 345
- Akimoto Y. Formation of polychlorinated dibenzo-p-dioxins (PCDD) and dibenzofurans (PCDF) in rotary combustor 393
- Albairges J see Soler M. 1489
- Albro P see Sherry J. 255
- Aldous K see Meyer C. 21
- Aldous K.M see Addis G. 97
- Alexander L.R see Patterson D.G., Jr. 233, 135, 89
- Alexander L.R. Maggio V.L. Gill J.B. Green V.E. Turner W.E. Patterson D.G., Jr. Green B.N. Gray B.W. Guyan S.A. Krolik S.T. and Nicolayson L.C. Performance of the high sensitivity ion source for PCDD/PCDF analyses in human serum and adipose tissue 241
- Allen L.H. Berry R.M. Fleming B.I. Luthe C.E. and Voss R.H. Evidence that oil-based additives are an indirect source of the TCDD and TCDF produced in kraft bleach plants 741
- Alley C.C see Groce D.F. 225
- Allhammar G see Oberg T. 711
- Altwickler E.R. The destruction and removal efficiency of toluene in combustion and related processes 1233
- Amores M.V. Hortelano P. Garcia-Salguero L. and Lupiáñez J.A. Renal gluconeogenic response to different diuretics. I. *In vitro* effects of mersalyl, furosemide and ethacrynic acid on isolated rat renal tubules 1749
- Amores M.V. Hortelano P. Garcia-Salguero L. and Lupiáñez J.A. Renal gluconeogenic response to different diuretics. II. Glucose production in the early hours after mersalyl, furosemide and ethacrynic acid administration 1757
- Andersson R see Rappe C. 13
- Androux P see Brunelot G. 1413
- Antonsson A.-B. Runmark S. Mowrer J. and Kjeller L.-O. Dioxins in the work environment in steel mills 699
- Aoyama S see Wakimoto T. 121
- ApSimon J see Sherry J. 255
- Armstrong V see Birmingham B. 637
- Ashley D.L see Patterson D.G., Jr. 233
- Ashman J see Birmingham B. 507
- Astroff B see Bannister R. 949, see Harris M. 769
- Astroff B. Hawkins M. and Safe S. Mechanism of action of 2,3,7,8-TCDD and 6-methyl-1,3,8-trichlorodibenzofuran (MCDF) as antiestrogens in the female rat 785
- Aust S.D see Fernando T. 1387
- Azengard P. and Renberg L. The influence of bleaching chemicals and lignin content on the formation of polychlorinated dioxins and dibenzofurans 661
- Baláz S. Wiese M. Kany M. Chi H. and Seydel J.K. Model-based relationship between the microbial transformation rate of organic chemicals and their physicochemical properties 1677
- Balfanz E see Theisen J. 423
- Ball M see Pápek O. 941
- Ballschmiter K see Nottrodt A. 309
- Bannister R. Davis D. Biegel L. Astroff B. and Safe S. 6-Methyl-1,3,8-trichlorodibenzofuran (MCDF) as a 2,3,7,8-TCDD antagonist in C57BL/6 mice 949
- Barak N.A.-E. and Mason C.F. Heavy metals in water, sediment and invertebrates from rivers in eastern England 1709
- Bard D see Bonvalot Y. 623
- Barnhart A.E.R see Patterson D.G., Jr. 233
- Barnhart E.R see Patterson D.G., Jr. 127
- Bassanelli R see Perez G. 1153
- Batterman A.R. Cook P.M. Lodge K.B. Lothenbach D.B. and Butterworth B.C. Methodology used for a laboratory determination of relative contributions of water, sediment and food chain routes of uptake for 2,3,7,8-TCDD bioaccumulation by Lake Trout in Lake Ontario 451
- Bauer I. Weigelt S. and Ernst W. Biotransformation of hexachlorobenzene in the blue mussel (*Mytilus edulis*) 1701
- Bauer K.M see Beckert W.F. 83
- Baughman K.W see Finkel J.M. 67
- Bautz H see Stieglitz L. 283
- Bayona J.M see Vallis M. 1818
- Becchi M see Connors M.F. 189
- Beck H. Drob A. and Mathar W. 3,3',4,4'-tetrachlorobiphenyl in human fat and milk samples, 1805
- Beck H. Dross A. Eokart K. Mathar W. and Wittkowski R. Determination of PCDDs and PCDFs in irgasan DP 300 167
- Beck H. Dross A. Eokart K. Mathar W. and Wittkowski R. PCDDs, PCDFs and related compounds in paper products 655

- Beck J see Stieglitz L. 283
 Beck J.M. see Murray H.E. 1367
 Beckert W.F., Stanley J.S., Tondour Y.T., Lopez-Avila V., Bauer K.M., Mitchum R.K., and Billets S. HRGC/HRMS Analysis of hazardous waste incinerator scrubber water for PCDDs and PCDFs 83
 Belter T.A. see Cantrell J.S. 183, 155
 Belter T.A. and Cantrell J.S. Twist angle of the C-C bridge bond in octachlorodibenzofuran 177
 Beltrame P., Beltrame P.L., and Carniti P. Lipophilic and electrophilic factors in the inhibiting action of substituted phenols on the biodegradation of phenol 1623
 Beltrame P.L. see Beltrame P. 1623
 Bergak S. see Bergqvist P.-A. 513, see Bignert A. 551
 Bergman A. see Haglund E. 195, see Klasson Wehler E. 809
 Bergqvist P.-A. see Bignert A. 551
 Bergqvist P.-A., Bergak S., Hallbäck H., Rappe C., and Sjöström S.A. Dioxins in cod and herring from the seas around Sweden 513
 Bergström J. see Öberg T. 317, 337
 Berilicini M., Di Domenico A., Fanelli R., Palma S., and Zapponi G. Detection of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) in soil samples 501
 Berry R.M. see Allen L.H. 741
 Biegel L. see Bannister R. 949
 Biegel L., Howie L., and Safe S. Polychlorinated biphenyl (PCB) congeners as 2,3,7,8-TCDD antagonists: teratogenicity studies 955
 Bignert A., Olsson M., Bergqvist P.-A., Bergak S., Rappe C., de Wit C., and Jansson B. Polychlorinated dibenzo-p-dioxins (PCDD) and dibenzo-furans (PCDF) in seal blubber 551
 Billets S. see Beckert W.F. 83
 Bingham A.G., Edmunds C.J., Graham B.W.L., and Jones M.T. Determination of PCDDs and PCDFs in car exhaust 569
 Birch R.R., Biver C., Campagna R., Gledhill W.E., Pappa U., Steber J., Neust H., and Boninck W.J. Screening of chemicals for anaerobic biodegradability 1527
 Birmingham B., Thorpe B., Frank R., Clement R., Tosine H., Fleming G., Ashman J., Wheeler J., Ripley B.D., and Ryan J.J. Dietary intake of PCDD and PCDF from food in Ontario, Canada 507
 Birmingham B., Gilman A., Grant D., Salminen J., Boddington M., Thorpe B., Wile I., Toft P., and Armstrong V. PCDD/PCDF multimedia exposure analysis for the Canadian population: detailed exposure estimation 637
 Biver C. see Birch R.R. 1527
 Blinksberg P. see Nielsen P.R. 731
 Bobbie B.A. see McQuarrie D.M.A. 205
 Bobra A.M., Shiu W.Y., Mackay D., and Goodman R.H. Acute toxicity of dispersed fresh and weathered crude oil and dispersants to *Daphnia magna* 1199
 Boddington M. see Birmingham B. 637
 Bol J., van den Berg M., and Seinen W. Interactive effects of PCDD's, PCDF's and PCB's as assessed by the E.L.S.-bioassay 899
 Bonati L. see Pitea D. 751
 Bonatoni W.J. see Birch R.R. 1527
 Bonvalot Y., Aherhals L., and Bard D. Uncertainty in quantitative carcinogenic risk assessment procedures for 2,3,7,8-tetra-chlorodibenzo-p-dioxin 623
 Born J.G.P., Louw R., and Mulder P. Formation of dibenzodioxins and chlorobenzenes in fly ash catalyzed reactions of mono-chlorophenols 1629
 Born J.G.P., Louw R., and Mulder P. Formation of dibenzodioxins and dibenzofurans in homogenous gas-phase reactions of phenols 401
 Bouman C. see Van den Berg M. 795
 Bouman H., Coopman R.M., and Reinecke A.J. Extraction and clean-up procedure to determine DDT and metabolites in human breast milk 1563
 Brandt I. see Klasson Wehler E. 809
 Brown J.J. see Johnson J. 849
 Brown D. see Zebühr Y. 39
 Brown D., Naf C., Zebühr Y., and Lenzén K. The composition, distribution and flux of PCDDs and PCDFs in settling particulate matter (SPM) - a sediment trap study in the Northern Baltic 445
 Brown J.F., Jr., Lawton R.W., Ross M.R., Feingold J., Wagner R.E., and Hamilton S.B. Persistence of PCB congeners in capacitor workers and Yusho patients 829
 Brown M. A., Kim I. S., Roehl R., Sasinos F. I., and Stephens R. D. Analysis of target and nontarget pollutants in aqueous leachates from the hazardous waste site Stringfellow, California, via ion chromatography - particle beam and inductively coupled plasma mass spectrometry 1921
 Brown R.S. see Mundy K.J. 381
 Brown R.S., Pettit K., and Jones P.W. A GC/MS study of 2,3,7,8-TCDD using a DB-225 column and selected decomposition monitoring as a quantitative tool 171
 Brown S. L. and Rossi J. E. A simple method for estimating dermal absorption of chemicals in water 1989
 Brunelot G., Adrian P., Rouiller J., Guillet B., and Andreux F. Determination of dissociable acid groups of organic compounds extracted from soils, using automated potentiometric titration 1413
 Brunner H., Wiesmüller T., Hagenmaier H., Abraham K., Krowke R., and Neubert D. Distribution of PCDDs and PCDFs in rat tissues following various routes of administration 907
 Brunström B. see Nikolaidis E. 817
 Brunström B. Toxicity of coplanar polychlorinated biphenyls in avian embryos 765
 Bul Sy Hun see Nguyen Thi Ngoc Phuong 933
 Bumbaco M.J. see Chiu C.H. 7
 Bumpus J.A. see Fernando T. 1387
 Buncos M.J. see Landers J.P. 959
 Bures L. W. see McCarthy J. F. 1911
 Bures V.W. see Patterson D.G., Jr. 127
 Bureš E. see Tysklind M. 705
 Burton D. T., Fisher D. J., and Paulson R. L. Comparative toxicity of solvent yellow 33 [2-(2'-quinolyl)-1,3-indandione] and solvent green 3 (1,4-di-p-toluidino-anthraquinone) dyes to freshwater organisms 1599
 Buser H.R. see Jan J. 1163
 Buss V. see Gruber C. 1595
 Butterworth B.C. see Batterman A.R. 451
 Cameron L.W. see Fingerhut M.A. 835
 Campagna R. see Birch R.R. 1527
 Cantrell J.S. see Belter T.A. 177
 Cantrell J.S., Belter T.A., and Tomlin D. Structural analysis by diffraction of polychlorinated dioxins and dibenzofurans 155
 Cantrell J.S., Tomlin D.W., and Belter T.A. Structures of two mono-chlorinated dibenzodioxins (DBD) 1-CIBDD and 2-CIBDD 183
 Caponechi G. see Perez G. 1153
 Carbone L. G., Guterman W. H., and Lisk D. J. Element immobilization in refuse incinerator ashes by solidification in glass, ceramic or cement 1951
 Carniti P. see Beltrame P. 1623
 Caron G. Modelling the environmental distribution of nonpolar organic compounds: the influence of dissolved organic carbon in overlying and interstitial water 1473
 Carpi A. see Hudson J.B. 1329
 Carnaschi S. see Giugliano M. 407
 Cernauski L.L. see Lakshman M.R. 773
 Chan W.H. see Tashiro C. 1
 Chang R. see Goldman L.R. 841
 Chang R., Hayward D., Goldman L., Hamly M., Flattery J., and Stephens R. Foraging farm animals as biomonitors for dioxin contamination 481
 Charles M.J., Green B., Tondour Y., and Hass J.R. Optimization of a hybrid-mass spectrometer method for the analysis of polychlorinated dibenzo-p-dioxins and polychlorinated dibenzofurans 51
 Chen B. see Scheunert I. 1715
 Chi H. see Baláz S. 1677
 Chiesa G. see Pitea D. 751, 417
 Chirtel S.J. see Lakshman M.R. 773
 Chiu C.H., Bumbaco M.J., and Lao R.C. Interlaboratory comparison studies on the measurement of PCDD/PCDF in pulp and paper materials 7
 Christmann W., Kasiske D., Klöppel K.D., Rotard W., and Partscht H. Combustion of polyvinylchloride - an important source for the formation of PCDD/PCDF 387
 Christmann W., Klöppel K.D., Partscht H., and Rotard W. Determination of PCDD/PCDF in ambient air 521
 Clement R. see Birmingham B. 507
 Clement R.E. see McQuarrie D.M.A. 201, 205, see Tashiro C. 1, 535
 Clement R.E., Suter S.A., Reimer E., McQuarrie D., and Hollinger D. Concentrations of chlorinated dibenzo-p-dioxins and dibenzofurans in effluents and centrifuged particulates from Ontario pulp and paper mills 649
 Clevenger T.E. see Duebelbeis D.O. 143, see Nam K.S. 33
 Collier L. see Sherry J. 755
 Colmsjö A. see Zebühr Y. 39
 Colmi P. see Pitea D. 417
 Connolly L.B. see Fingerhut M.A. 835, see Sweeney M.H. 973
 Connell D.W. see Warne M.St.J. 1113
 Connell D.W. Biomagnification by aquatic organisms - a proposal 1573
 Connors P. see Webster T. 597
 Connors S. see Addis G. 97, see Meyer C. 21
 Constable J. see Olie K. 493, see Schecter A. 979
 Constable J.D. see Schecter A. 1001
 Cook P.M. see Batterman A.R. 451, see Lodge K.B. 439
 Cooke W.M. see Addis G. 97
 Coopman R. see Bouman H. 1563
 Coutlakis P.A. see Lakshman M.R. 773
 Cox E.A. see Cresser C.S. 1457
 Craane L.H.J. see van der Weiden M.E.J. 1009
 Cresser C.S., Fernandes A.R., Harard S.J., Hurst T., and Cox E.A. Background levels of polychlorinated biphenyls in British soils - II 1457

- Dan Quoc V see Nguyen Thi Ngoc
Phuong 933, see Pham Hoang Phiet 937
- Dan Quoc Vu see Schecter A. 913
- Daniel H see Millischer R.J. 789
- Darmstad P.O. see Klasson Wehler E. 809
- Daugherty K see Poslusny M. 1375
- Davis D see Bannister R. 949, see Safe S. 853
- De Fré R. and Rymen T. PCDD and PCDF formation from hydrocarbon combustion in the presence of hydrogen chloride 331
- De Jong A.P.J.M. see Liem A.K.D. 75
- De Jong A.P.J.M., Liem A.K.D., Den Boer A.C., van der Heeft E., Marsman J.A., van de Werken G. and Wegman R.C.C. Analysis of polychlorinated dibenzofurans and dibenzo-p-dioxins in human milk by tandem hybrid mass spectrometry 59
- Den Boer A.C. see De Jong A.P.J.M. 59
- Dencker L see Nikolaidis E. 817
- Dennison M.A. see Safe S. 853
- DeRoos F.L. see Addis G. 97
- Devillers J., Steiman R. and Seigler-Murandi F. The usefulness of the agar-well diffusion method for assessing chemical toxicity to bacteria and fungi 1693
- Di Prima M. see Pitea D. 417
- Dickson L.C., Lenoir D., Hutzinger O., Nakowati K.P. and Karasek F.W. Inhibition of chlorinated dibenzo-p-dioxin formation on municipal incinerator fly ash by using catalyst inhibitors 1435
- Dickson L.C., Lenoir D. and Hutzinger O. Surface-catalyzed formation of chlorinated dibenzodioxins and dibenzofurans during incineration 277
- Dorn I see Hasberg W. 565
- Droß A see Beck H. 1805
- Dross A see Beck H. 167, 655
- Düwel U. see Nottrödt A. 309
- Duebelbeis D.O., Pieczonka G., Kapila S., Clevenger T.E., Yanders A.F. and Wilson J.D. Application of a dual column reaction chromatography system for confirmatory analysis of polychlorinated biphenyl congeners 143
- Duhr M see Grunzt U. 1035
- Dumler R., Thoma R., Lenoir D. and Hutzinger O. PBDF and PBDD from the combustion of bromine containing flame retarded polymers: a survey. 2023
- Dumler R., Thoma H., Lenoir D. and Hutzinger O. Thermal formation of polybrominated dibenzodioxins (PCDD) and dibenzofurans (PBDF) from bromine containing flame retardants 305
- Eaton G.A. see Addis G. 97
- Eckart K see Beck H. 167, 655
- Edmonds C.J. see Bingham A.G. 669
- Ehrlich W see Mangir M. 1261
- El-Kabbany S see Zelles L. 1721
- Emmell C see Méallier P. 1427
- Ericsson M.D. PCDFs and related compounds produced from PCB fires -- A Review 161
- Ernst W see Bauer I. 1701, see Lara R. 1655, see Sabljic A. 1665
- Evers E.H.G. see van der Weiden M.E.J. 1009
- Evers E.H.G., van Berghem J.W. and Olie K. Exploratory data analysis of PCDD and PCDF measurements in sediments from industrialized areas 459
- Facchetti S see Larsen B.R. 1017
- Fanelli R see Berlinioini M. 501
- Farrell K see Safe S. 853
- Feingold J see Brown J.F., Jr. 829
- Ferguson M.L. and Metcalfe C.D. Distribution of PCB congeners in sediments of the Otonabee river-rice lake system, Peterborough, Canada 1321
- Fernandes A.R. see Creaser C.S. 1457
- Fernandez P see Valls M. 1818
- Fernando T. Aust S.D. and Bumpus J.A. Effects of culture parameters on DDT [1,1,1-trichloro-2,2-bis(4-chlorophenyl)ethane] biodegradation by *Phanerochaete chrysosporium* 1387
- Fingerhut M.A. see Sweeney M.H. 973
- Fingerhut M.A., Sweeney M.H., Patterson D.G., Jr., Piacitelli L.A., Morris J.A., Marlow D.A., Horning R.W., Cameron L.W., Connolly L.B., Needham L.L. and Halperin W.E. Levels of 2,3,7,8-tetrachlorodibenzo-p-dioxin in the serum of U.S. chemical workers exposed to dioxin contaminated products: interim results 835
- Finkel J.M., James R.H., Baughman K.W., Pau J.C., Knoll J.E. and Midgett M.R. Efficiency of dioxin recovery from fly ash samples during extraction and cleanup process 67
- Fisher D. J see Burton D. T. 1959
- Fisher R.P. see Sullivan M.J. 869
- Flattery J see Chang R. 481, see Goldman L.R. 841
- Fleming B.I. see Allen L.H. 741
- Fleming G see Birmingham B. 507
- Floodström S. and Ahlberg U.G. Tumour promoting effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) - effects of exposure duration, administration schedule and type of diet 779
- Forss A.M. see Grunzt U. 1035
- Fraisse D see Gonnord M.F. 189, 373
- Frank R see Birmingham B. 507
- Franklin J. A. see Gerkens R. R. 1929
- Freestone F.J. see Pardek J.M. 561
- Frei K. and Grunzt U. The fire. 1021
- Friesel P see Sievers S. 691
- Fürst C see Schecter A. 913, 979
- Fürst P see Patterson D.G., Jr. 89, 135, see Schecter A. 913, 979
- Fujiwara T see Hiracka M. 323
- Funk W see Theisen J. 423
- García-López J.A., García-López M.A. and Monteoliva M. Relationship between pseudocholinesterase and some whole blood parameters 1467
- García-López M.A. see García-López J.A. 1467
- García-Salguero L see Amores M.V. 1749, 1757
- Gardner M. and Gunn A. The effect of natural ligands on trace metal partitioning 1251
- Garrett J.H. see Tiernan T.O. 541, 573
- Geibum L.T. see Patterson D.G., Jr. 233
- Gerkens R. R. and Franklin J. A. The rate of degradation of 1,1,1-trichloroethane in water by hydrolysis and dehydrochlorination 1929
- Gervason P see Millischer R.J. 789
- Ghezzi U see Giugliano M. 407
- Gielen J.W.J. see Liem A.K.D. 75
- Gill J.B. see Alexander L.R. 1811, 241
- Gillespie W.J. see LeFleur L.E. 643, see Sullivan M.J. 869, 873
- Gilman A see Birmingham B. 537
- Gilman A.P. and Morris R.W. PCDD/PCDF in consumer paper products: a Canadian perspective 883
- Girling A.E. Preparation of aqueous media for aquatic toxicity testing of oils and oil-based products: a review of the published literature 1635
- Giugliano M., Cernuschi S. and Ghezzi U. The emission of dioxins and related compounds from the incineration of municipal solid wastes with high contents of organic chlorine (PVC) 407
- Glas B see Rappe C. 1875, see Wiberg K. 735
- Glatz J.A. see Johnson J. 849
- Gledhill W.E. see Birch R.R. 1527
- Goldman L see Chang R. 481
- Goldman L.R., Hayward D.G., Flattery J., Harnly M.E., Patterson D.G., Jr., Needham L.L., Siegel D., Chang H., Stephens R.D. and Kizer K.W. Serum, adipose and autopsy tissue PCDD ND PCDF levels in people eating dioxin contaminated feed and chicken eggs 841
- Gomez-Catalan J see To-Figuera J. 1869
- Gonnord M.F., Ignatiadis I., Fraisse D. and Becchi M. Incidence of the column reactivity on the PCDDs and PCDFs GC/MS quantitation 189
- Gonnord M.F., Fraisse D. and Vanderpol J.F. Waste incinerator effluent characterization on a small energy-from-waste facility 373
- Gonzalez-Lopez J see Salmeron V. 1779
- Goodman R.H. see Robra A.M. 1199
- Gordon S.M. see Addis G. 97
- Graham B.W.L. see Bingham A.G. 669
- Graham E.A. see Hudson J.B. 1329
- Grainger J., Reddy V.V. and Patterson D.G., Jr. Analysis of tetra-through octachlorinated dibenzo-p-dioxins by gas chromatography/Fourier transform infrared spectroscopy 249
- Grainger J. Longitudinal chlorine substituent effects on dibenzo-dioxin molecular geometry by Fourier transform infrared spectroscopy 1521
- Grainger J., Patterson D.G., Jr. and Fresser D. Structure/retention time correlations for the 22 tetrachlorodibenzo-dioxin isomers by gas chromatography/matrix isolation Fourier transform infrared spectroscopy 1513
- Grant D see Birmingham B. 637
- Gray B.W. see Alexander L.R. 241
- Green B see Charles M.J. 51
- Green B.W. see Alexander L.R. 241
- Green V.E. see Alexander L.R. 241
- Green V.E. see Alexander L.R. 1811
- Grimalt J.O. see Soler M. 1489
- Groce D.F. see Patterson D.G., Jr. 127
- Groce D.F., Alley C.C. and Patterson D.G., Jr. Synthesis of tetrachloro-, pentachloro-, and hexachloro-dibenzofurans from the pyrolysis of polychlorinated biphenyls 225
- Groebel W see Schecter A. 913, 979
- Groes M.L. see Schecter A. 1001, 547
- Gruber C. and Buss V. Quantum-mechanically calculated properties for the development of quantitative structure-activity relationships (QSAR's). pKa-values of phenols and aromatic and aliphatic carboxylic acids 1595
- Gruntinger T see Suter K.E. 1029
- Grunzt U see Frei K. 1020
- Hägerstedt L.-E. see Tysklind M. 705
- Hagermeister H see Abraham K. 887, see Brunner H. 907
- Haglund E. and Bergman A. Synthesis of hexa- and heptachloro-naphthalenes 195
- Hahn J.L., von dem Fange H.P. and Westerman G. A comparison of ambient and workplace dioxin levels from testing in and around modern resource recovery facilities with predicted ground

- level concentrations of dioxins from stack emission testing with corresponding workplace health risks 629
- Haider M. J. and Siddiqui H.**
Haematology of cattle during summer and winter 2003
- Hakansson H** see **Hanberg A.** 813
- Hakansson H, Johansson L, Ahlborg U.G., Moore R.W. and Peterson R.E.**
Hepatic vitamin A storage in relation to paired feed restriction and to TCDD-treatment 919
- Halbäck H** see **Bergqvist P.-A.** 513
- Halperin W.E.** see **Fingerhut M.A.** 835, see **Sweeney M.H.** 973
- Hamilton S.B.** see **Brown J.F., Jr.** 829
- Hanberg A.** see **Waern F.** 1005
- Hanberg A., Hakansson H. and Ahlborg U.G.** "ED50" values for TCDD-induced reduction of body weight gain, liver enlargement, and thymic atrophy in Hartley guinea pigs, sprague-dawley rats, C57BL/6 mice, and golden Syrian hamsters 813
- Handa S** see **Nagayama J.** 927
- Hannon H** see **Patterson D.G., Jr.** 135
- Haraoguchi K** see **Kuroki H.** 803
- Haraoguchi K., Kuroki H. and Masuda Y.**
Occurrence and distribution of chlorinated aromatic methyl-sulfones and sulfoxides in biological samples 487
- Harden L.A.** see **Tiernan T.O.** 541
- Hardin E.B.** see **Addis G.** 97
- Harnly M.** see **Chang R.** 481
- Harnly M.E.** see **Goldman L.R.** 841
- Harrad S.J.** see **Creaser C.S.** 1457
- Harris M., Zacharewski T., Astroff B., Kampe C. and Safe S.**
Characterization of 6-methyl-1,3,8-trichlorodibenzofuran (MCDF) as a 2,3,7,8-TCDD antagonist in male rats: induction of monooxygenases 769
- Hasberg W., May H. and Dorn I.**
Description of the residence-time behaviour and burnout of PCDD/PCDF and other higher chlorinated aromatic hydrocarbons in industrial waste incinerator plants 565
- Hass J.R.** see **Charles M.J.** 51
- Hassett J.P.** see **Yin C.** 1289
- Hattori H** see **Kuroki H.** 803
- Hawker D.** The relationship between octan-1-ol/water partition coefficient and aqueous solubility in terms of solvatochromic parameters 1585
- Hawker D.W.** see **Warne M.St.J.** 1113
- Hayes D.A.** see **Addis G.** 97
- Hayward D.** see **Chang R.** 481
- Hayward D.G.** see **Goldman L.R.** 841
- Hazel R.H.** Solving hazardous waste problems in Missouri using the EPA mobile incinerator 557
- Held A. van den Berg M. and Olie K.**
Risk assessment and selection of remedial action alternatives the Volgermeerpolder case study 615
- Helms B.G.J. and Timmerberg H.-H.**
Effects of polychlorinated biphenyls on T-lymphocytes using a modified erythrocyte rosette inhibition test 823
- Helwig D., Miller J. and Klein W.**
Volatile organic substances in a forest atmosphere 1399
- Henderson L.O.** see **Patterson D.G., Jr.** 135
- Hilker D.** see **Mayer C.** 21
- Hilker D.R.** see **Addis G.** 97
- Hirakawa M., Takeda M., Okajima S., Kasakura T. and Imoto Y.**
Catalytic destruction of PCDDs in flue gas 361
- Hirakawa M., Takeda M., Tsumura K., Fujiwara T. and Okajima S.**
Control of dioxins from municipal solid waste incinerator 323
- Hirasawa F.** see **Takizawa Y.** 989
- Holcomb M.** see **Safe S.** 853
- Holder J.W. and Menzel H.M.** Analysis of 2,3,7,8-TCDD tumor promotion activity and its relationship to cancer 861
- Hollinger D.** see **Clement R.E.** 649
- Hon K.P.** see **Naikwadi K.P.** 579
- Hoogerbrugge R.** see **Liem A.K.D.** 75
- Horie A.** see **Nagayama J.** 927
- Hornung R.W.** see **Fingerhut M.A.** 835
- Hortelano P.** see **Amores M.V.** 1749, 1757
- Hossainpour J., Schwind K.H. and Thoma H.** Brominated/chlorinated dibenzo-p-dioxins and furans: synthesis of standards and detection in fly ash from a municipal waste incinerator 109
- Howard M.F.** see **Mosbaek H.** 1787
- Howie L.** see **Biegel L.** 955
- Hudson J.B., Graham E.A., Miki N., Towers G.H.N., Hudson L.L., Rossi R., Carpita A. and Neri D.**
Photoactive antiviral and cytotoxic activities of synthetic thiophenes and their acetylenic derivatives 1329
- Hudson L.L.** see **Hudson J.B.** 1329
- Hunter E.W.** see **Sutton M.M.** 685
- Hurst T.** see **Creaser C.S.** 1457
- Hutzinger O.** see **Dickson L.C.** 1435, 277, see **Dumler R.** 305, 2023, see **Reissinger M.** 467, see **Schramm K.-W.** 1729
- Ignatiadis I.** see **Gonnord M.F.** 189
- Imagawa T.** see **Takeuchi M.** 717
- Imoto Y.** see **Hirakawa M.** 361
- Inoue S.** see **Yamamoto T.** 271
- Isaacs S.** see **Alexander L.R.** 1811
- Isaacs S.G.** see **Patterson D.G., Jr.** 89, 135
- Ivens I.** see **Lo "Finkel E."** 759
- James R.H.** see **Seier J.M.** 67
- Jan J. and Buser H.R.** Formation of polychlorinated dibenzodioxins on heating lidane in the presence of hydrogen peroxide 1163
- Jansson B.** see **Bignett A.** 551, see **de Wit C.** 497
- Jay K. and Stieglitz L.** The gas phase addition of NO_x to olefins 1939
- Jönsson J.** see **Klasson Wehler E.** 809
- Jönsson J.** see **Nam K.S.** 33
- Jönsson L.** see **Hakansson H.** 919
- Johnson J., Breen J.J., Murray T.M., Glatz J.A., Steele D.H. and Stanley J.S.** Polyhalogenated dibenzo-p-dioxins/dibenzofurans testing and reporting requirements under the toxic substances control act (TSCA) 849
- Johnstone G. W.** see **Luke B. G.** 2007
- Jones K.C.** see **Wild S.R.** 1765
- Jones M.T.** see **Bingham A.G.** 669
- Jones P.W.** see **Brown R.S.** 171, see **Mundy K.J.** 381
- Juha R.** see **Jussi-Pekka A.** 353
- Jurusi J.** see **Addis G.** 97
- Kagan J.** see **Wang T.P.** 1345
- Kahkola K. V.** see **Nickless G.** 1971, 1981
- Kallikowski P.** see **Kontinen S.** 1483
- Kampe C.** see **Harris M.** 769
- Kanazawa J.** see **Koshioka M.** 681
- Kango R.A. and Quinn J.G.** Adsorption studies of xylenes and ethylbenzene on soil and humic acid by a purge and trap gas chromatographic method 1269
- Kanno S.** see **Ghya J.T.** 1835
- Kansy M.** see **Baláz S.** 1677
- Kapila S.** see **Duebelbeis D.O.** 143, see **Nam K.S.** 33, see **Yanders A.F.** 429
- Karasek F.W.** see **Dickson L.C.** 1435, see **Naikwadi K.P.** 299, 579, 213, see **Ross B.J.** 291, see **Thompson T.S.** 45
- Kasakura T.** see **Hirakawa M.** 361
- Kashimoto T.** see **Miyata H.** 517
- Kashimoto T., Takayama K., Mimura M., Miyata H., Murakami Y. and Matsumoto H.** PCDDs, PCDFs, PCBs, coplanar PCBs and organochlorinated pesticides in human adipose tissue in Japan 921
- Kasike D.** see **Christmann W.** 387
- Kawamoto K. and Urano K.** Parameters for predicting fate of organochlorine pesticides in the environment (II) adsorption constant to soil 1223
- Kawano M., Nishiyama N., Tatsukawa R. and Shimada T.** *in vitro* degradation of *trans*-chlordane and oxychlordane by rat liver microsomes 1829
- Keenan R.E., Sauer M.M. and Lawrence F.H.** Assessment of potential health risks from dermal exposure to dioxin in paper products 877
- Keyes B.** see **Safe S.** 853
- Khalil M.A.K. and Rasmussen R.A.**
Urban carbon monoxide: contributions of automobile and wood burning 1383
- Kilpatrick M.P.** see **Addis G.** 97
- Kim I. S.** see **Brown M.A.** 1921
- King G.** see **Perdek J.M.** 561
- Kitunen V.H. and Salkinoja-Salonen M.S.** Occurrence of PCDDs and PCDFs in pulp and board products 721
- Kiyohara C.** see **Nagayama J.** 927
- Kizer K.W.** see **Goldman L.R.** 841
- Kjeller L.-O.** see **Addis G.** 97, see **Antonsson A.-B.** 699, see **Rappe C.** 13, see **Svenson A.** 585
- Klasson Wehler E., Jönsson J., Bergman A., Brandt I. and Darnrud P.O.** 3,3',4,4'-tetrachlorobiphenyl and 3,3',4,4',5-pentachlorobiphenyl-tissue-localization and metabolic fate in the mouse 809
- Klein W.** see **Helwig D.** 1399
- Kleinveld A.H.** see **Liem A.K.D.** 75
- Klöppel K.D.** see **Christmann W.** 387, 521
- Knickmeyer R. and Steinhart H.** On the distribution of polychlorinated biphenyl congeners and hexachlorobenzene in different tissues of dab ((Limanda limanda) from the North sea 1309
- Knoll J.E.** see **Finkel J.M.** 67
- Knutzen J. and Oehme M.**
Polychlorinated dibenzofuran (PCDF) and dibenzo-p-dioxin (PCDD) levels in organisms and sediments from the frierfjord, Southern Norway 1897
- König J.** see **Thelsen J.** 423
- Koistinen J.** see **Kuokkanen T.** 727, see **Paasivirta J.** 149
- Koistinen J., Paasivirta J. and Vuorinen P.J.** Dioxins and other planar polychloroaromatic compounds in Baltic, Finnish and Arctic fish samples 527
- Kontinen S., Kurtti P., Raunema T. and Kallikowski P.** Comparison of methods for analyzing occupational monoterpene exposures 1483
- Kooke R.H.M.** see **Olie K.** 493, see **van der Weiden M.E.J.** 1009
- Korte F.** see **Scheunert I.** 1715, see **Zelles L.** 1721
- Koshioka M., Yamada T., Kanazawa J. and Murali T.** Photolysis of tetrachlorodibenzop-dioxins 681
- Kottmann J.** see **Lissel M.** 1499
- Krinningstad K. P.** see **Rappe C.** 1875
- Krolik S.T.** see **Alexander L.R.** 241
- Krowka R.** see **Abraham K.** 893, 887, see **Brunner H.** 907
- Kuokkanen T.** see **Paasivirta J.** 149

- Kuokkanen T. ¹H NMR, ¹³C NMR and mass spectra of some chloro-cyrenes 1349
- Kuokkanen T. and Koistinen J. Contents of aromatic chlorohydrocarbons, toxaphene, PCDDs, and PCDFs in spent bleach liquors after biological purification 727
- Kuokkanen T. Structure verification of some chlorinated p-cyrenes by high field NMR and IR spectroscopies 1243
- Kuroki H see Haraguchi K. 487
- Kuroki H, Hattori R, Haraguchi K. and Masuda Y. Metabolism of 2,8-dichlorodibenzofuran in rats 803
- Kurtik P see Konttinen S. 1483
- LaFleur L.E see Sullivan M.J. 873
- Lakshman M.R. Chirtel S.J. Chambers L.L. and Coutlakis P.A. Effects of 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) on lipid synthesis and lipogenic enzymes in the rat 773
- Lamparski L.L. and Nestrick T.J. Novel extraction device for the determination of chlorinated dibenzo-p-dioxins (CDDs) and dibenzofurans (CDFs) in matrices containing water 27
- Lamparski L.L. see Nestrick T.J. 1179
- Lamparski L.L. and Nestrick T.J. Analytical methodology of the Dow chemical company for the determination of selected chlorinated dibenzo-o-dioxins and dibenzofurans in stack gas effluent matrices Part 1: Full method for determination of tetra-through octa-chlorinated congener group total concentrations and ²³⁷⁸-substituted isomers 1165
- Landers J.P. Bunce N.J. Nakai J.S. Winhall M.J. and Safe S.H. Interspecies differences in *in vitro* thermal inactivation of unliganded hepatic Ah receptor 959
- Lao R.C. see Chiu C.H. 7
- Lawrence F.H. see Keenan R.E. 877
- Lawton R.W. see Brown J.F., Jr. 829
- LeFleur L.E. Ramage K. Gillespie W.J. Millie M.J. Luksemburg W.J. and Valmore S. Optimization of extraction procedures for the analysis of TCDD/TCDF in pulp, paper base stocks, and pulp industry solid wastes 643
- Lenoir D. see Dickson L.C. 277, 1435, see Dümmler R. 305, 2023, see Lissel M. 1499
- Levings C.D. see Rogers I.H. 1853
- Lexén K. see Broman D. 445, see Zebühr Y. 39
- Lexmond R.J. see de Leer E.W.B. 1141
- Lien A.K.D. see De Jong A.P.J.M. 59
- Lien A.K.D. Van Laar A. Kleinveld A.H. Verhoeve P. Wegman R.C.C. Gielen J.W.J. Hoogerbrugge R. and De Jong A.P.J.M. Interlaboratory study of PCDDs and PCDFs in fly dust from a municipal incinerator 75
- Lilla E. see Perez G. 1153
- Lindgaard-Jorgensen P. and Riemann B. 3H-Thymidine incorporation preliminary investigations of a method to forecast the toxicity of chemicals in biodegradability tests 1447
- Lindström G. Rappe C. and Sjöström M. Multivariate data analysis applied in studying the distribution of PCDDs and PCDFs in human milk 745
- Lis Z.A. see Pápek O. 941
- Lisk D. J. see Carbone L. G. 1951
- Lissel M. Kottmann J. and Lenoir D. Dechlorination of perchlorinated aromatic compounds by graphite-potassium-intercalate 1499
- Löser E. and Ivens I. Preliminary results of a 3 month toxicity study on rats with 2,3,7,8-tetra-bromodibenzo-p-dioxin (2,3,7,8-TBDD) 759
- Lockhart W.L. see Rogers I.H. 1853
- Lodge K.B. see Batterman A.R. 451
- Lodge K.B. and Cook P.M. Partitioning studies of dioxin between sediment and water: the measurement of Koc for Lake Ontario sediment 439
- Lopez-Avila V. see Beckert W.F. 83
- Lothman D.B. see Batterman A.R. 451
- Low R. see Born J.G.P. 1629, 401
- Low G.K.-C. McEvoy S.R. and Matthews R.W. Formation of ammonium and nitrate ions from photocatalytic oxidation of ring nitrogenous compounds over titanium dioxide 1611
- Luke B. G. Johnstone G. W. and Woehler E. J. Organochlorine pesticides, PCBs and mercury in antarctic and subantarctic seabirds. 2007
- Luksemburg W.J. see LeFleur L.E. 643
- Lundström K. see Wiberg K. 735
- Luplánez J.A. see Amores M.V. 1749, 757
- Luth C.E. see Allen L.H. 741
- Mäntylä K. see Paasivirta J. 149
- Mäntylä K. Paasivirta J. and Mannila E. Combustion products of biosludge from pulp mill 413
- Mackay D. see Bobra A.M. 1199, see Stiver W. 1187
- Maggio V.L. see Alexander L.R. 1811, 241
- Maguire R.J. and Tkacz R.J. Potential underestimation of chlorinated hydrocarbon concentrations in fresh water 1277
- Mangir M. and Ehrlich W. Evidence for a cadmium-binding-protein in *Saccharomyces cerevisiae* 1261
- Mannila E. see Mäntylä K. 413, see Paasivirta J. 149
- Mansoor E. see Waern F. 1005
- Marino M. see Soler M. 1489
- Mariussen K. see Meyer C. 21
- Marlow D.A. see Fingerhut M.A. 835, see Sweeney M.H. 973
- Marsman J.A. see De Jong A.P.J.M. 59
- Martinez-Toledo M.V. see Salmeron V. 1779
- Mason C.F. see Barak N.A.-E. 1709
- Mason G. see Safe S. 853
- Masuda Y. see Haraguchi K. 487, see Kuroki H. 803
- Mathar W. see Beck H. 1805, 167, 655
- Matsumoto H. see Kashimoto T. 921
- Matthews R.W. see Low G.K.-C. 1611
- May H. see Hasberg W. 565
- McCarthy J. F. Roberson L. E. and Burrus L. W. Association of benzo(a)pyrene with dissolved organic matter: prediction of K_{ow} from structural and chemical properties of the organic matter. 1911
- McCurvin D. see Clement R.E. 649
- McCurvin D.M.A. Schellenberg D.H. Clement R.E. and Taguchi V.Y. A comparison of tandem quadrupole mass spectrometry versus single quadrupole capabilities for the determination of chlorinated dioxins and dibenzofurans in environmental samples 201
- McCurvin D.M.A. Clement R.E. Taguchi V.Y. Reiner E.J. Schellenberg D.H. and Bobble B.A. A comparison of the capabilities of mass spectral techniques for the detection of chlorinated dibenzo-p-dioxins and dibenzofurans in environmental samples 205
- McEvoy S.R. see Low G.K.-C. 1611
- Méallier P. Rémelin C. Périchet G. and Tissut M. Photodependent generation of reactive oxygen species by a phytotoxic pyridine derivative 1427
- Meemken H.-A. see Schechter A. 979, 913
- Mendez J. see Soler M. 1489
- Menzel H.M. see Holder J.W. 861
- Mes J. and Weber D. Non-ortho-chlorine substituted coplanar polychlorinated biphenyl congeners in Canadian adipose tissue, breast milk and fatty foods 1357
- Metcalfe C.D. see Ferguson M.L. 1321
- Meyer C. O'Keefe P. Hilker D. Rafferty L. Wilson L. Connor S. Aldous K. Markussen K. and Slade K. A survey of twenty community water systems in New York State for PCDDs and PCDFs 21
- Midgett M.R. see Finkel J.M. 67
- Millie M. see LeFleur L.E. 643
- Miki W. see Hudson J.B. 1329
- Miller M. see Addis G. 97
- Millischer R.J. Gervason P. and Daniel H. Comparative acute toxicity of thermal degradation aerosols generated by a chlorinated aromatic substitute to PCBs and by a PCB based fluid 789
- Mimura M. see Kashimoto T. 921, see Miyata H. 517
- Mitcham R.K. see Beckert W.F. 83
- Miyata H. see Kashimoto T. 921
- Miyata H. Takayama K. Mimura M. and Kashimoto T. Investigation on contamination sources of PCDDs and PCDFs in blue mussel in Osaka Bay in Japan 517
- Miyazaki A. see Takeuchi H. 717
- Mohri W. see Nagayama J. 927
- Moller J.T. see Nielsen K.K. 367
- Mona R. and Moser H.R. Local climatic situation and diffusion of combustion gases. 1025
- Monson S.J. see Schechter A. 1001, 547
- Monteoliva M. see García-López J.A. 1467
- Moody P.L. see Sweeney M.H. 973
- Moore P. see Poslusny M. 1375
- Moore R.W. see Hakansson H. 919
- Moro G. see Pitea D. 751, 417
- Morris J.A. see Fingerhut M.A. 835
- Morris R.W. see Gilman A.P. 883
- Moebach H. Tjell J.C. and Howard M.F. Atmospheric lead input to agricultural crops in Denmark 1787
- Moser H.R. see Mona R. 1025
- Howser J. see Antonsson A.-B. 699
- Miller J. see Helmig D. 1399
- Muir D.C.G. see Servos M.R. 969
- Mulder P. see Born J.G.P. 1629, 401
- Mundy K.J. Brown R.S. Pettit K. and Jones P.W. Environmental assessment at and around a chemical waste treatment facility I - measurements on PCDFs and PCDDs 381
- Murali T. see Koshioka M. 681
- Murakami Y. see Kashimoto T. 921
- Murphy B.L. Modeling the leaching and transport of 2,3,7,8-TCDD from incinerator ash from landfills 433
- Murray H.E. and Beck J.N.

- Halogenated organic compounds found in shrimp from the Calcasieu estuary 1367
- Murray T.M. see Johnson J. 849
- NBF C. see Broman D. 445, see Zebühr Y. 39
- Nagayama J., Mohri M., Kiyohara C., Hada S. and Horie A. Comparative toxicologic study of 2,3,7,8-tetrachlorodibenzo-p-dioxin in Ah responsive and nonresponsive strains of mice 927
- Nailowadi K.P. see Dickson L.C. 1435, see Ross B.J. 291, see Thompson T.S. 45
- Nailowadi K.P., Thompson T.S. and Karasek F.W. Application of carbon-13 labelled dioxins mixture for analysis of polychlorinated dibenzo-p-dioxins in environmental samples by GC-MS 213
- Nailowadi K.P., Hsu K.P. and Karasek F.W. Characterization of chlorophenoxyl substituted polychlorinated dibenzo-p-dioxins formed by catalytic activity of metallic constituents of MSW fly ash 579
- Nailowadi K.P. and Karasek F.W. Prevention of PCDD formation in MSW incinerators by inhibition of catalytic activity of fly ash produced 299
- Nakai J.S. see Landers J.P. 959
- Nakamura K. see Ueno H. 1843
- Nam K.S., Kapila S., Viswanath D.S., Cleverger T.E., Johansson J. and Yanders A.F. Application of superficial fluid extraction of biological tissue samples for the determination of polychlorinated organics 33
- Needham L.L. see Fingerhut M.A. 835, see Goldman L.R. 841, see Patterson D.G., Jr. 89, 135
- Neri D. see Hudson J.B. 1329
- Nestrick T.J. see Lamparski L.L. 27, see Lamparski L.L. 1165
- Nestrick T.J. and Lamparski L.L. Analytical methodology of the Dow chemical company for the determination of selected chlorinated dibenzo-p-dioxins and dibenzofurans, in stack gas effluent matrices Part II: Isomer method for determination of tetra-through octa-chlorinated congener group "2378"-substituted isomer concentrations 1179
- Neubert D. see Abraham K. 893, 887, see Brunner H. 907
- Neupert M., Weis H., Thies J. and Stock B. Analytical procedures in connection with acute animal toxicity studies II. Pyrolysis products obtained from an ABS copolymer containing octabromodiphenylether as a flame retardant 219
- Neupert M., Weis H., Stock B. and Thies J. Analytical procedures in connection with acute toxicity studies I. Tetrabromodibenzo-p-dioxin (TBDD) 115
- Nguyen Thi Ngoc Phuong Bui Sy Hung Dan Quoc Vu and Schecter A. Dioxin levels in adipose tissues of hospitalized women living in the South of Vietnam in 1984-85 with a brief review of their clinical histories 933
- Nichols A.W. see Addis G. 97
- Nickless G., Roberts D. J. and Kahokola K. V. The effect of copper on lollum perenne seedlings 1971
- Nickless G., Roberts D. J. and Kahokola K. V. The use of experimental design and response surfaces in a study of the influence of copper, arsenic and chromium on lollum perenne seedlings 1981
- Nicolaysen L.C. see Alexander L.R. 241
- Nielsen K.K. and Møller J.T. Reduction of chlorinated dioxins and furans in the flue gas from incinerators with spray absorbers and electrostatic precipitators 367
- Nielsen P.R. and Blinkenberg P. Emission of dioxins (PCDD and PCDF) from some secondary sources; combustion of straw, coal and waste oil from automobiles 731
- Nikolaides E., Brunström B. and Dencker L. Effects of TCDD and its congeners 3,3',4,4'-tetrachloroazoxy-benzene and 3,3',4,4'-tetrachlorobiphenyl on lymphoid development in the bursa of fabricius and thymus of the Avian embryo 817
- Nishiyama N. see Kawano M. 1829
- Norstrom R.J. see Rogers I.H. 1853
- Nottradt A., Diwel U. and Ballschmiter K. Influence on formation of PCDD/PCDF in MWI plants - results of investigation at several plants in the FRG 309
- O'Keefe P. see Meyer C. 21
- O'Keefe P.W. see Addis G. 97
- Oberg T. and Allhammar G. Chlorinated aromatics from metallurgical industries - process factors influencing production and emissions 711
- Oberg T. and Bergström J. Indicator parameters for PCDD/PCDF 337
- Oberg T., Marwan K. and Bergström J. Production of chlorinated aromatics in the post-combustion zone and boiler 317
- Oehme M. see Knutzen J. 1897
- Offen C. see Startin J.R. 531, 985
- Ogawa M. see Onodera S. 675
- Ohya T. and Kanno S. Formation of cyanide ion or cyanogen chloride through the cleavage of aromatic rings by nitrous acid or chlorine. XI. On the reaction of purine bases with hypochlorous acid in the presence of ammonium ion. 1835
- Okada S. see Ueno H. 1843
- Okajima S. see Hirakawa M. 323, 361
- Olle K. see Evers E.H.G. 459, see Heida H. 615, see van der Weiden N.E.J. 1009, see van Zorge J.A. 1881
- Olle K., Schecter A., Constable J., Kooke R.M.M., Serné P., Slot P.C. and de Vries P. Chlorinated dioxin and dibenzofuran levels in food and wildlife samples in the North and South of Vietnam 493
- Olle K., Slot P.C. and Wever H. Decomposition of octachlorodibenzofuran and formation of the HEPTA congeners during GLC analysis 103
- Olsson M. see Bignert A. 551
- Onodera S., Ogawa M., Yamawaki C., Yamagishi K. and Suzuki S. Production of polychlorinated phenoxypheols (predioxins) by aqueous chlorination of organic compounds 675
- Oppenhuizen A. see Sijm D.T.H.M. 263, 475
- Orazio C.E. see Yanders A.F. 429
- Orr D. see Tashiro C. 535
- Ottman C. see Zebühr Y. 39
- Osuna A. see Velasco J.R. 1743
- Päpke O., Ball M., Lis Z.A. and Scheunert K. PCDD/PCDF in whole blood samples of unexposed persons 941
- Paasivirta J. see Koistinen J. 527, see Mäntykoski K. 413
- Paasivirta J., Mäntykoski K., Koistinen J., Kuokkanen T., Mannila E. and Rissanen K. Structure analyses of planar polychloro-aromatic compounds in environment 149
- Paasivirta J. and Paudou R. Use of composited samples to optimize the monitoring of environmental toxins 1551
- Pagga U. see Birch R.R. 1527
- Palma S. see Berlingioni M. 501
- Parsons J.R. and Storme M.C.M. Biodegradation of chlorinated dibenzo-p-dioxins in batch and continuous cultures of strain JBI 1297
- Partsch H. see Christmann W. 521, 387
- Patterson D.G., Jr. see Groce D.F. 225
- Patterson D.G., Jr. see Alexander L.R. 241, see Fingerhut M.A. 835, see Goldman L.R. 841, see Grainger J. 1513, 249
- Patterson D.G., Jr., First P., Alexander L.R., Isaacs S.G., Turner W.E. and Needham L.L. Analysis of human serum for PCDDs/PCDFs: a comparison of three extraction procedures 89
- Patterson D.G., Jr., Lapeza C.R., Jr., Barnhart E.R., Groce D.F. and Burse V.W. Gas chromatographic/mass spectrometric analysis of human serum for non-ortho (Coplanar) and ortho substituted polychlorinated biphenyls using isotope dilution mass spectrometry 127
- Patterson D.G., Jr., First P., Henderson L.O., Isaacs S.G., Alexander L.R., Turner W.E., Needham L.L. and Hannon H. Partitioning of in-vivo bound PCDDs/PCDFs among various compartments in whole blood 135
- Patterson D.G., Jr., Reddy V.V., Barnhart E.R., Ashley D.L., Lapeza C.R., Jr., Alexander L.R. and Gelbaum L.T. Synthesis and analytical characterization of all tetra to octachlorodibenzo-o-dioxins 233
- Patterson Jr. D.G. see Alexander L.R. 1811
- Pau J.C. see Finkel J.M. 67
- Paudou R. see Paasivirta J. 1551
- Paulson R. L. see Burton D. T. 1959
- Périchet G. see Méallier P. 1427
- Pellizzari E. see Addis G. 97
- Pereck J.M., Freestone P.J., Gupta G.D., King G., Sawyer R.H. and Shumbar J.P. Trial burn results and future activities of the EPA mobile incinerator 561
- Perez G., Bassanelli R., Lilla E., Polcaro C. and Caponecchi G. Formation of fluoranthene and nitrofluoranthenes by gamma radiolysis 1153
- Peterson R.E. see Hakansson H. 919
- Pettit K. see Brown R.S. 171, see Mundy K.J. 381
- Pham Hoang Phiet, Trinh Kim Anh Dan Quoc Vu and Schecter A. Preliminary observations on the clinical histories, polychlorinated dibenzodioxin and dibenzofuran tissue levels and 2,3,7,8-TCDD toxic equivalents of potentially dioxin exposed patients living in the South of Vietnam 937
- Piacitelli L.A. see Fingerhut M.A. 835
- Pieczonka G. see Duebelbeis D.O. 143
- Piskorska-Piiszczynska J. and Safe S. Radioligand-dependent properties of the Ah receptor

- from rat and mouse hepatic cytosol 963
- Piskorska-Pliszczynska** J. see **Safe S.** 853
- Pitea D.** Di Prima M., Lasagni M., Moro G., Todeschini R., Comolli P., and Chiesia G. PCDD and PCDF in emissions from the combustion of MSW in a pilot plant. Preliminary results 417
- Pitea D.** Todeschini R., Lasagni M., Moro G., Bonati L., and Chiesia G. The combustion of municipal solid wastes: PCDD and PCDF in MSW and in emissions. A chemometric approach 751
- Polcaro C.** see **Perez G.** 1153
- Poolunmy M.** Daugherty K., Moore P., and Venables B. Analysis of PAH and PCB emissions generated during the combustion of binder enhanced densified refuse derived fuel 1375
- Preusser D.** see **Grainger J.** 1513
- Puri R.K.** see **Yanders A.F.** 429
- Quinn J.G.** see **Kango R.A.** 1269
- Rafferty L.** see **Meyer C.** 21
- Ramage K.** see **LeFleur L.E.** 643
- Rappe C.** see **Addis G.** 97, see **Bergqvist P.-A.** 513, see **Bignert A.** 551, see **Lindström G.** 745, see **Svenson A.** 585, see **Tysklind M.** 705, see **Wiberg K.** 735
- Rappe C.** Kjaer L.-O. and **Andersson R.** Analyses of PCDDs and PCDFs in sludge and water samples 13
- Rappe C.** **Svenson S.** E. Glas B., **Kringstad K.P.** de **Sousa P.** and **Abe Z.** Formation of PCDD's and PCDF's by the chlorination of water 1875
- Rasmussen R.A.** see **Khalil M.A.K.** 1383
- Raunamaa T.** see **Konttinen S.** 1483
- Reddy V.V.** see **Grainger J.** 249, see **Patterson D.G., Jr.** 233
- Reid M.** see **Tashiro C.** 535
- Reinecke A.J.** see **Bouman H.** 1563
- Reiner E.** see **Clement R.E.** 649
- Reiner E.J.** see **McCurvin D.M.A.** 205
- Reischl A.** see **Hutzinger O.** and **Reischl A.** Uptake and accumulation of PCDD/F in terrestrial plants: basic considerations 467
- Renberg L.** see **Akergard P.** 661
- Reust H.** see **Birch R.R.** 1527
- Richterich K.** and **Stebler J.** Prevention of nitrification-caused erroneous diodegradability data in the closed bottle test 1643
- Riemann B.** see **Lindgaard-Jorgensen P.** 1447
- Ripley B.D.** see **Birmingham B.** 507
- Rissanen K.** see **Paasivirta J.** 149
- Roberson L. E.** see **McCarthy J. F.** 1911
- Roberts D. J.** see **Nickless G.** 1981, 1971
- Rodwellians M.** see **To-Figueroa J.** 1869
- Rohli R.** see **Brown M. A.** 1921
- Rogers C.** see **Tiernan T.O.** 573
- Rogers I.H.** **Levings C.D.** **Lockhart W.L.** and **Norstrom R.J.** Observations on overwintering juvenile chinook salmon (*Oncorhynchus tshawytscha*) exposed to bleached kraft mill effluent in the Upper Fraser river, British Columbia 1853
- Rovainen J.** see **Aittola J.-P.** 353
- Romkes M.** see **Astroff B.** 785, see **Safe S.** 853
- Rose M.** see **Startin J.R.** 531, 985
- Ross B.J.** **Nalimadi K.P.** and **Karasek F.W.** Effect of temperature, carrier gas and precursor structure on PCDD and PCDF formed from precursors by catalytic activity of MSW incinerator fly ash 291
- Ross M.R.** see **Brown J.F., Jr.** 829
- Rossi J. E.** see **Brown S. L.** 1989
- Rossi R.** see **Hudson J.B.** 1329
- Rotard W.** see **Christmann W.** 387, 521
- Roth W.** see **Stieglitz L.** 283
- Rouiller J.** see **Brunelot G.** 1413
- Rouse T.O.** see **Addis G.** 97
- Rummark S.** see **Antonsen A.-B.** 699
- Ryan J.J.** see **Birmingham B.** 507, see **Schechter A.** 979
- Rymen T.** see **De Fré R.** 331
- Sabljić A.** **Lara R.** and **Ernst W.** Modelling association of highly chlorinated biphenyls with marine humic substances 1665
- Sabljić A.** and **Gleisen H.** Predicting Henry's law constants for polychlorinated biphenyls 1503
- Safe S.** see **Safe S.** 853
- Safe S.** see **Astroff B.** 785, see **Bannister R.** 949, see **Biegals L.** 955, see **Harris M.** 769, see **Piskorska-Pliszczynska J.** 963, see **Waern F.** 1005
- Safe S.** **Davis D.** **Romkes M.** **Yao C.** **Keyes B.** **Piskorska-Pliszczynska J.** **Farrell K.** **Mason G.** **Denomme M.A.** **Safe L.** **Zmudzka B.** and **Holcomb M.** Development and validation of in vitro bioassays for 2,3,7,8-TCDD equivalents 853
- Safe S.** Risk assessment of PCDDs and PCDFs based on in vitro and in vivo bioassays 609
- Safe S.H.** see **Landers J.P.** 959
- Salkinoja-Salonen M.S.** see **Kitunen V.H.** 721
- Salmeron V.** **Martinez-Toledo M.V.** and **Gonzalez-Lopez J.** Effect of the nitrogen source on the adenine nucleotide content and energy charge of *Azotobacter chroococcum* 1779
- Salminen J.** see **Birmingham B.** 637
- Salinon F. I.** see **Brown M. A.** 1921
- Sattar M.A.** Fate of chlorinated cresols from environmental samples 1421
- Sauer M.H.** see **Keenan R.E.** 877
- Sawachi M.** see **Yamamoto T.** 271
- Sawyer R.H.** see **Pondok J.M.** 561
- Sayoto Y.** see **Ueno H.** 1843
- Schatter Ch.** see **Gruntz U.** 1101
- Schechter A.** see **Nguyen Thi Ngoc Phuong** 933, see **Olle K.** 493, see **Pham Hoang Phiet** 937
- Schechter A.** **Vu D.** **Tong H.Y.** **Monson S.J.** **Gross M.L.** and **Constable J.D.** Levels of 2,3,7,8-TCDD and 2,3,7,8-TCDF in human adipose tissue from hospitalized persons in the North and South of Vietnam 1984-88 1001
- Schechter A.** **Tong H.Y.** **Monson S.J.** and **Gross M.L.** Levels of 2,3,7,8-TCDD in silt samples collected between 1985-86 from rivers in the North and South of Vietnam 547
- Schechter A.** **Fürst P.** **Fürst C.** **Mosken H.-A.** **Groebel W.** and **Dan Quoc Vu** Levels of polychlorinated dibenzodioxins and dibenzofurans in cow's milk and in soy bean derived infant formulas sold in the United States and other countries 913
- Schechter A.** **Fürst P.** **Ryan J.J.** **Fürst C.** **Mosken H.-A.** **Groebel W.** **Constable J.** and **Vu D.** Polychlorinated dioxin and dibenzofuran levels from human milk from several locations in the United States, Germany and Vietnam 979
- Schellenberg D.H.** see **McCurvin D.M.A.** 205, 201, see **Thompson T.S.** 45
- Schetter G.** Assessment of PCDD and PCDF emissions from refuse incineration plants 589
- Scheunert I.** see **Zelles L.** 1721
- Scheunert I.** **Chen Bin** and **Korte F.** Fate of 2,4,6-trichlorophenol-¹⁴C in a laboratory soil-plant system 1715
- Scheunert K.** see **Päpke O.** 941
- Schmid P.** see **Gruntz U.** 1035
- Schramm K.-W.** and **Hutzinger O.** Accumulation of semivolatile lipophilic micropollutants in thin butter layers 1729
- Schwind K.H.** see **Hosseinpour J.** 109
- Seigle-Murandi F.** see **Devillers J.** 1693
- Seinen W.** see **Bol J.** 899, see **Van den Berg M.** 795, see **van der Weiden H.E.J.** 1009
- Sergeant D.B.** see **Servos M.R.** 969
- Serné P.** see **Olle K.** 493
- Servos M.R.** **Muir D.C.G.** **Whittle D.M.** **Sergeant D.B.** and **Webster G.R.B.** Bioavailability of octachlorodibenzo-p-dioxin in aquatic ecosystems 969
- Seydel J.K.** see **Baláz S.** 1677
- Shackleton M.** see **Tashiro C.** 535
- Sherry J.** **ApSimon J.** **Collier L.** **Wilkinson R.** **Albro P.** and **Afghan B.** The use of radioimmunoassay for the detection of polychlorinated dibenzo-p-dioxins in fish samples 255
- Shimada T.** see **Kawano M.** 1829
- Shiu W.Y.** see **Bobra A.M.** 1199
- Sidiqui H.** see **Haider M. J.** 2003
- Siegel D.** see **Goldman L.R.** 841
- Sievers S.** and **Friesel P.** Soil contamination patterns of chlorinated organic compounds: looking for the source 691
- Sijm D.T.H.M.** **Wever H.** and **Oppehuizen A.** Influence of biotransformation on the accumulation of PCDDs from fly-ash in fish 475
- Sijm D.T.H.M.** **Wever H.** de **Vries P.J.** and **Oppehuizen A.** Octan-1-ol/water partition coefficients of polychlorinated dibenzo-p-dioxins and dibenzofurans: experimental values determined with a stirring method 263
- Sjostrom M.** see **Lindström G.** 745
- Slade K.** see **Meyer C.** 21
- Slorach S.A.** see **Bergqvist P.-A.** 513
- Sloth P.C.** see **Olle K.** 103, 493
- Smith R.M.** see **Addis G.** 97
- Snow D.D.** see **Spalding R.F.** 1129
- Söderström G.** see **Tysklind M.** 705
- Solch J.G.** see **Tiernan T.O.** 573, 541
- Soler M.** **Grimalt J.O.** **Albaiges J.** **Mendez J.** and **Marino M.** Distribution of aliphatic, aromatic and chlorinated hydrocarbons in mussels from the Spanish Atlantic Coast (Galicia): an assessment of pollution parameters 1489
- Spalding R.F.** and **Snow D.D.** Stream levels of agricultural chemicals during a spring discharge event 1129
- Stanley L.H.** see **Watkins B.E.** 267
- Stanley J.S.** see **Becker W.F.** 83, see **Johnson J.** 849
- Startin J.R.** **Rose M.** and **Offen C.** Analysis of PCDDs and PCDFs in human milk from the UK 985
- Startin J.R.** **Rose M.** and **Offen C.** Survey of the background levels of PCDDs and PCDFs in UK vegetation 531
- Stebler J.** see **Birch R.R.** 1527, see **Richterich K.** 1643
- Steele D.H.** see **Johnson J.** 849
- Steinman R.** see **Devillers J.** 1693
- Steinhart H.** see **Knickmeyer R.** 1309
- Stephens R.** see **Chang R.** 481
- Stephens R. D.** see **Brown M. A.** 1921
- Stephens R.D.** see **Goldman L.R.** 841
- Stieglitz L.** see **Jay K.** 1939
- Stieglitz L.** **Zwick G.** **Beck J.** **Bautz H.** and **Roth W.** Carbonaceous

- particles in fly ash - a source for the De-Novo-synthesis of organochlorine compounds 283
- Stiver W.** and **Mackay D.** The linear additivity principle in environmental modelling: application to chemical behaviour in soil 1187
- Stöck B.** see Neupert M. 219, 115
- Storrs M.C.M.** see Parsons J.R. 1297
- Strandell M.** see de Wit C. 497
- Stumbar J.P.** see Perdek J.M. 561
- Sullivan M.J., LaFleur L.E.** and **Gillespie W.J.** Risks associated with potential dioxin exposure through consumption of coffee brewed using bleached pulp-based filters 873
- Sullivan M.J., Fisher R.P.** and **Gillespie W.J.** Risks associated with potential dioxin exposure through inhalation of paper dust 869
- Suter K.E.** see Gruntz . 1101
- Suter K.E.** Toxicological investigations of filter extracts. 1066
- Suter S.A.** see Clement R.E. 649
- Sutton M.M.** and **Hunter E.M.** Photolytic/thermal destruction of dioxins and other toxic chloro-aromatic compounds 685
- Suzuki S.** see Onodera S. 675
- Svensson A., Kjeller L.-O.** and **Rappe C.** Enzymatic chlorophenol oxidation as a means of chlorinated dioxin and dibenzofuran formation 585
- Swanson S.** see Rappe C. 1875
- Sweeney M.H.** see Fingerhut M.A. 835
- Sweeney M.H., Fingerhut M.A., Connolly L.B., Halperin W.E., Moody P.L.** and **Marlow D.A.** Progress of the NIOSH cross-sectional medical study of workers occupationally exposed to chemicals contaminated with 2,3,7,8-TCDD 973
- Szakolczi A.** see Tashiro C. 1
- Taguchi Y.Y.** see McCurvin D.M. 201, 205
- Takayama K.** see Kashimoto T. 921, see Miyata H. 517
- Takeda N.** see Hirakawa M. 323, 361
- Takeshita R.** and **Akimoto Y.** Control of PCDD and PCDF formation in fluidized bed incinerators 345
- Takesuchi M., Imagawa T., Miyazaki A.** and **Tanaka T.** Formation of chlorinated benzenes, naphthalenes and dibenzofurans in the pyrolysis of chlordane 717
- Takizawa Y.** and **Hirasawa F.** Acute toxicity of dibenzo-p-dioxin in mice and rats 989
- Tanaka T.** see Takesuchi M. 717
- Tarkowski S.** and **Yrjänheikki E.** Who coordinated intercountry studies on levels of PCDDs and PCDFs in human milk 995
- Tashiro C., Clement R.E., Szakolczi A.** and **Chen W.H.** Comparison of high volume sampling techniques for dioxins and furans in ambient air 1
- Tashiro C., Clement R.E., Reid M., Orr D.** and **Shackleton M.** Determination of dioxins and furans in precipitation collected in urban and rural Ontario locations 535
- Tatsukawa R.** see Kawano M. 1829, see Wakimoto T. 121
- Theelen R. M. C.** see van Zorge J. A. 1881
- Thelsen J., Funcke W., Balfanz E.** and **König J.** Determination of PCDFs and PCDDs in fire accidents and laboratory combustion tests involving PVC- containing materials 423
- Thies J.** see Neupert M. 115, 219
- Thoma H.** see Dunler R. 305, see Hossainpour J. 109, see Reissinger M. 467
- Thoma R.** see Dunler R. 2023
- Thompson T.S.** see Naikwadi K.P. 213
- Thompson T.S., Schellenberg D.H., Naikwadi K.P.** and **Karasek F.W.** HPLC cleanup procedures for the determination of 2,3,7,8-TCDD in fish tissue 45
- Thorpe B.** see Birmingham B. 637, 507
- Tiernan T.O., Wagel D.J., Vanness G.F., Garrett J.H., Solch J.G.** and **Rogers C.** Dechlorination of PCDD and PCDF sorbed on activated carbon using the KPEB reagent 573
- Tiernan T.O., Wagel D.J., Vanness G.F., Garrett J.H., Solch J.G.** and **Harden L.A.** PCDD/PCDF in the ambient air of a metropolitan area in the U.S. 541
- Tinneberg H.-R.** see Heinzow B.G.J. 823
- Tissut M.** see Méallier P. 1427
- Tjell J.C.** see Mosbaek H. 1787
- Tkacz R.J.** see Maguire R.J. 1277
- To-Figuera J., Gomez-Catalan J.** and **Rodamilans M.** Effect of phenobarbital, naphthoflavone and diethylmaleate on the sex dependent urinary pattern of hexachlorobenzene metabolites in the rat. 1869
- Todeschini R.** see Pitea D. 751, 417
- Toft P.** see Birmingham B. 637
- Tomlin D.** see Cantrell J.S. 155
- Tomlin D.W.** see Cantrell J.S. 183
- Tondeur Y.T.** see Beckert W.F. 83
- Tong H.Y.** see Schecter A. 547, 1001
- Tosine H.** see Birmingham B. 507
- Towers G.H.N.** see Hudson J.B. 1329
- Trinh Kim An.** see Pham Hoang Phiet 937
- Tsumura K.** see Hirakawa M. 323
- Turner W.E.** see Alexander L.R. 1811, 241, see Patterson D.G., Jr. 135, 89
- Tysklind M., Söderström G., Rappe C., Hågerstedt L.-E.** and **Burström E.** PCDD and PCDF emissions from scrap metal melting processes at a steel mill 705
- Ueno H., Sugawara T., Nakamura K., Sayato Y.** and **Okada S.** Mutagenicity and identification of products formed by aqueous ozonation of humic acids of different origins 1843
- Urano K.** see Kawamoto K. 1223
- Valente H.** see Addis G. 97
- Valls M., Fernandez P.** and **Bayona J.M.** Fate of cationic surfactants in the marine environment. I. Bioconcentration of long-chain alkyl nitriles and trialkylamines. 1818
- Valmores S.** see LaFleur L.E. 643
- Van den Berg M.** see Bol J. 899, see Heida H. 615, see van der Weiden M.E.J. 1009
- Van den Berg M., Rouman C.** and **Seinen W.** Hepatic retention of PCDDs and PCDFs in C57BL/6 and DBA/2 mice 795
- Van Laar A.** see Liem A.K.D. 75
- Vanderlaan M.** see Watkins B.E. 267
- Vanderpol J.P.** see Gonnord M.F. 373
- Vanness G.F.** see Tiernan T.O. 573, 541
- Velasco J.R., Adroher F.J.** and **Oseuna A.** A survey of culture media of *Trypanosoma cruzi* amastigote forms from infected vero cells 1743
- Venables B.** see Poslusny M. 1375
- Verheere P.** see Liem A.K.D. 75
- Vinikainen S.** see Aittola J.-P. 353
- Vismann D.S.** see Nan K.S. 33
- Von Dem Fange H.P.** see Hahn J.L. 629
- Voss R.H.** see Allen L.H. 741
- Wu D.** see Schecter A. 979, 1001
- Vuorinen P.J.** see Koistinen J. 527
- Wærn F., Hanberg A., Manzoor E., Safe S.** and **Ahlborg U.G.** Interaction of 6-methyl-1,3,8-trichlorodibenzofuran with TCDD-induced vitamin A reduction 1005
- Wagel D.J.** see Tiernan T.O. 541, 573
- Wagner R.E.** see Brown J.F., Jr. 829
- Wakimoto T., Aoyama S.** and **Tatsukawa R.** Determination of tetrachlorobiphenyls (TeCBs) in flyash extracts containing planar aromatic compounds 121
- Wang T.P.** and **Kagan J.** Ageing of human erythrocytes: effect on photosensitized hemolysis 1345
- Warren K.** see Oberg T. 317
- Warne M., St.J., Connell D.W.** and **Hawker D.W.** Development of QSAR's based on high performance liquid chromatography capacity factors to describe non-specific toxicity 1113
- Watkins B.E., Stanker L.H.** and **Vanderlaan M.** An immunoassay for chlorinated dioxins in soils 267
- Weber D.** see Mes J. 1357
- Weberuss U.** see Abraham K. 887
- Webster G.R.B.** see Servos M.R. 969
- Webster T.** and **Connett P.** Cumulative impact of incineration on agriculture: a screening procedure for calculating population risk 597
- Wegman R.C.C.** see De Jong A.P.J.M. 59, see Liem A.K.D. 75
- Weigelt S.** see Bauer L. 1701
- Weis H.** see Neupert M. 115, 219
- Westerman G.** see Hahn J.L. 629
- Weyer H.** see Olie K. 103, see Sljrm D.T.H.M. 263, 475
- Wheller J.** see Birmingham B. 507
- Whittle D.M.** see Servos M.R. 969
- Wiberg K., Lundström K., Glas B.** and **Rappe C.** PCDDs and PCDFs in consumers' paper products 735
- Wiese M.** see Baláz S. 1677
- Wiesmüller T.** see Abraham K. 887, see Brunner H. 907
- Wild S.R.** and **Jones K.C.** The effect of sludge treatment on the organic contaminant content of sewage sludges 1765
- Wile I.** see Birmingham B. 637
- Wilkinson R.** see Sherry J. 255
- Wilson J.D.** see Duebelbeis D.O. 143
- Wilson L.** see Meyer C. 21
- Winhall M.J.** see Landers J.P. 959
- Wittkowski R.** see Beck H. 167, 655
- Woehler E.** J. see Luke B. G. 2007
- Yamada T.** see Koshioka M. 681
- Yamagishi K.** see Onodera S. 675
- Yamamoto T., Inoue S.** and **Sawachi M.** Post furnace formation and progressive chlorination of PCDD and PCDF in municipal waste incinerator 271
- Yamawaki C.** see Onodera S. 675
- Yanders A.F.** see Duebelbeis D.O. 143, see Nan K.S. 33
- Yanders A.F., Orazio C.E., Puri R.K.** and **Kapila S.** On translocation of 2,3,7,8-tetrachlorodibenzo-p-dioxin: time dependent analysis at the times beach experimental site 429
- Yao C.** see Safe S. 853
- Yin C.** and **Hassett J.P.** Fugacity and phase distribution of mirex in Oswego river and lake Ontario waters 1289
- Yrjänheikki E.** see Tarkowski S. 995
- Zacharewski T.** see Harris M. 769
- Zapponi G.** see Berlingioni M. 501
- Zebühr Y.** see Broman D. 445
- Zebühr Y., Naf C., Broman D., Lenz K., Colagig A.** and **Ostman C.** Sampling techniques and clean up procedures for some complex environmental samples with respect to PCDDs and PCDFs and

other organic contaminants 39
Zelles L. El-Kabbany S. Scheunert I.
and Korte F. Effects of penta-

chlorophenol-¹⁴C and HgCl₂ on the
microflora of various soils in
comparison to biodegradation and

volatilization 1721
Zandstra B see Safe S. 853
Zwick G see Stieglitz L. 283